

HCD-GN700/GX8800

SERVICE MANUAL

Ver 1.0 2003.04



Photo: HCD-GN700

US Model

HCD-GX8800

E Model

HCD-GN700

HCD-GN700/GX8800 are the amplifier, CD player, tape deck and tuner section in MHC-GN700/GX8800.

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM74-K6BD47S
	Base Unit Name	BU-K6BD47S
	Optical Pick-up Name	KSM-213DCP
TAPE Section	Model Name Using Similar Mechanism	HCD-XGR66/XGR600
	Tape Transport Mechanism Type	CWM43RR23

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

(MHC-GX8800 USA model only)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6-ohm loads, both channels driven, from 120 Hz – 10 kHz; rates 200 watts per channel minimum RMS power, with no more than 10% total harmonic distortion from 250 miliwatts to rated output.

Amplifier section

MHC-GX8800

Total harmonic distortion Less than 0.1%
(6 ohms at 1 kHz, 100 W)

MHC-GN700

The following are measured at AC 127V, 60 Hz (Mexican model only)

The following are measured at AC 120, 220, 240V 50/60 Hz (except Mexican model)

DIN power output (rated) 160 + 160 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference) 200 + 200 watts
(6 ohms at 1 kHz, 10% THD)

Inputs

GAME (VIDEO): 1 Vp-p, 75 ohms
(phono jack)

GAME (AUDIO): Voltage 250 mV, impedance 47 kilohms
(phono jacks)
MD/VIDEO (AUDIO) IN: voltage 450 mV/250 mV, impedance 47 kilohms
(phono jacks)
MIC: sensitivity 1 mV, impedance 10 kilohms
(phone jack)

Outputs

VIDEO OUT:
(phono jacks)

max. output level 1 Vp-p, unbalanced, Sync.
negative load impedance 75 ohms
accepts headphones of 8 ohms or more
accepts impedance of 6 to 16 ohms
accepts impedance of 24 ohms or more

PHONES:
(stereo mini jack)

FRONT SPEAKER:

SURROUND SPEAKER:

CD player section

System

Laser

Compact disc and digital audio system
Semiconductor laser
($\lambda=795\text{nm}$)

Laser Output

Max. 44.6 μW^*

^{*}This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.

Frequency response

Wave length

CD OPTICAL DIGITAL OUT

(Square optical connector jack, rear panel)

Wave length

Output Level

2 Hz – 20 kHz ($\pm 0.5\text{ dB}$)

795 nm

660 nm

-18 dBm

– Continued on next page –

Mini Hi-Fi COMPONENT SYSTEM

9-877-280-01

2003D0200-1

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Sony Corporation

Home Audio Company

Published by Sony Engineering Corporation

SONY®

HCD-GN700/GX8800

Tape player section

Recording system	4-track 2-channel stereo
Frequency response	50 – 13,000 Hz (± 3 dB), using Sony TYPE I cassette

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	87.5 – 108.0 MHz
Antenna	FM lead antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range

North and Latin American models:

530 – 1,710 kHz
(with the interval set at 10 kHz)
531 – 1,710 kHz
(with the interval set at 9 kHz)

Middle Eastern models:

531 – 1,602 kHz
(with the interval set at 9 kHz)

Other models:

531 – 1,602 kHz
(with the interval set at 9 kHz)
530 – 1,710 kHz
(with the interval set at 10 kHz)

Antenna

AM loop antenna

Antenna terminals

External antenna terminal

Intermediate frequency

450 kHz

General

Power requirements

US model: 120 V AC, 60 Hz

Mexican models: 120 or 127 V AC, 60 Hz

Argentina models: 220 V AC, 50/60 Hz

Other models: 120 V, 220 V or

230 - 240 V AC, 50/60 Hz
Adjustable with voltage selector

Power consumption

MHC-GN700 205 watts

MHC-GX8800 220 watts

Dimensions (w/h/d) Approx. 280 x 360 x 386.5 mm

Mass :

HCD-GN700/GX8800 Approx. 11.4 kg

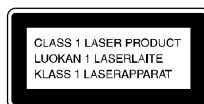
Design and specifications are subject to change without notice.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

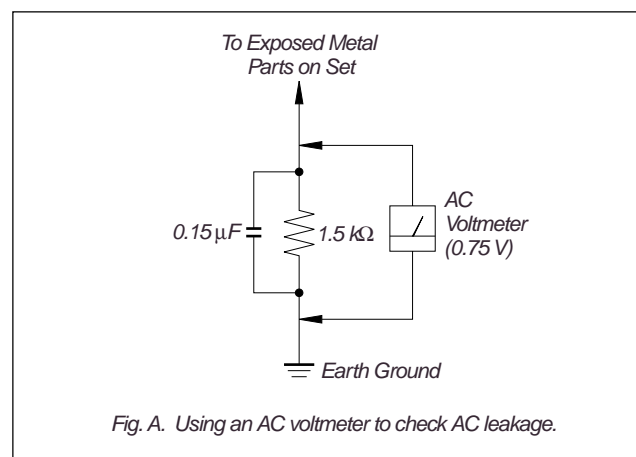


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

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SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP
BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

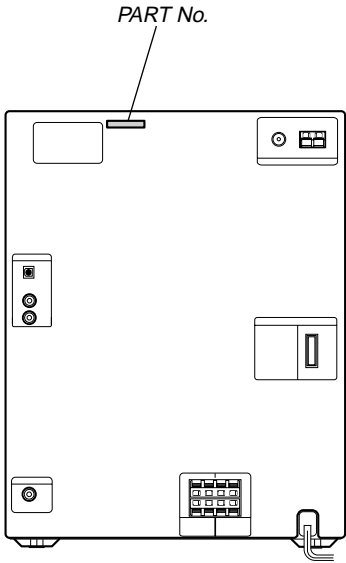
NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

LASER DIODE AND FOCUS SEARCH OPERATION
CHECK

Carry out the “S curve check” in “CD section adjustment” and check that the S curve waveforms is output three times.

• MODEL IDENTIFICATION
– Back Panel –



MODEL	PART No.
GN700 : E2, E3models	4-244-106-0□
GN700 : E51 model	4-244-106-1□
GN8800 : US models	4-244-106-2□
GN700 : Mexican model	4-244-106-3□
GN700 : Argentina model	4-244-106-4□

- Abbreviation
E2 : 120 V AC Area in E model
E3 : 240 V AC Area in E model
E51 : Chilean and Peruvian model

Main unit

ALPHABETICAL ORDER

A - D

ALBUM +/- [15]
AMP MENU [43]
CD [40]
CD SYNC [17]
DECK A [28]
DECK B [23]
DIRECTION [9]
DISC 1~3 [3]
DISC SKIP/EX-CHANGE [4]
Disc tray [6]
DISPLAY [41]
Display [2]

E - L

EDIT [9]
EFFECT ON/OFF [44]
FM MODE [8]
GAME [36]
GAME EQ [31]

GAME INPUT (jacks) [27]
GAME MIXING [34]
GROOVE [33]
IR (receptor) [42]
ILLUMINATION [29]

M - Q

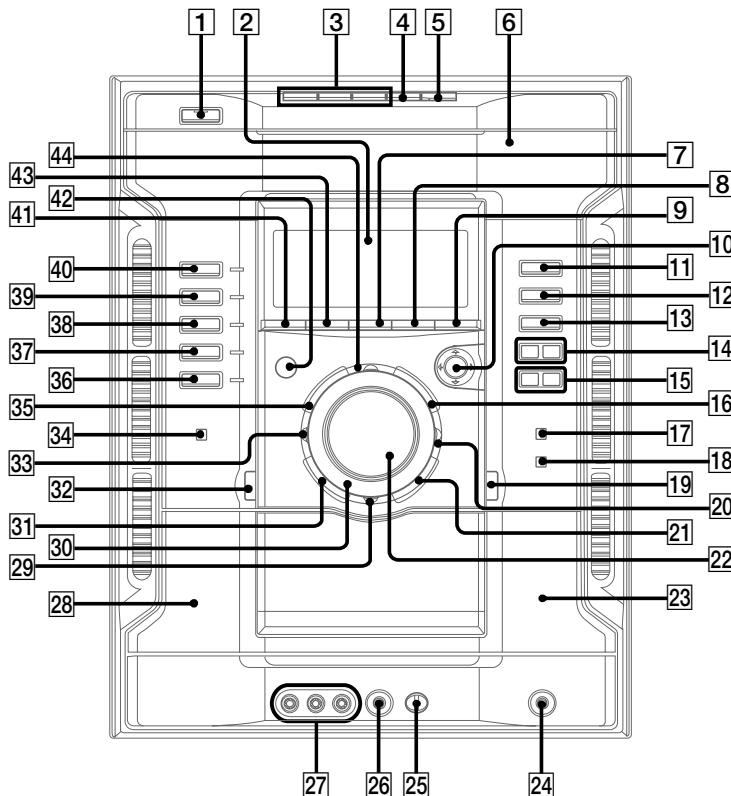
MD (VIDEO) [37]
MIC (jack) [26]
MIC LEVEL [25]
MOVIE EQ [16]
MUSIC EQ [35]
OPEN/CLOSE ▲ [5]
P FILE [21]
PHONES (jack) [24]
PLAY MODE [7]
Power illuminator [30]
PUSH ENTER [10]

R - Z

REC PAUSE/START [18]
REPEAT [8]
SURROUND SPEAKER MODE [20]
TAPE A/B [38]
TUNER/BAND [39]
TUNER MEMORY [7]
VOLUME [22]

SYMBOLS

I/⏻ (power) [1]
◀▶ (play) [11]
■ (stop) [12]
⏸ (pause) [13]
-◀◀ (go backward) [14]
▶▶+ (go forward) [14]
◀◀ (rewind) [15]
▶▶ (fast forward) [15]
⏮/⏪/⏩/⏭ [10]
⏏ A (Eject A) [32]
⏏ B (Eject B) [19]



Remote Control

ALPHABETICAL ORDER

A - M

CD [19]
 CLEAR [7]
 CLOCK/TIMER SELECT [2]
 CLOCK/TIMER SET [3]
 D.SKIP [9]
 ENTER [13]
 EFFECT ON/OFF [14]
 GAME [20]
 MD (VIDEO) [10]

P - Z

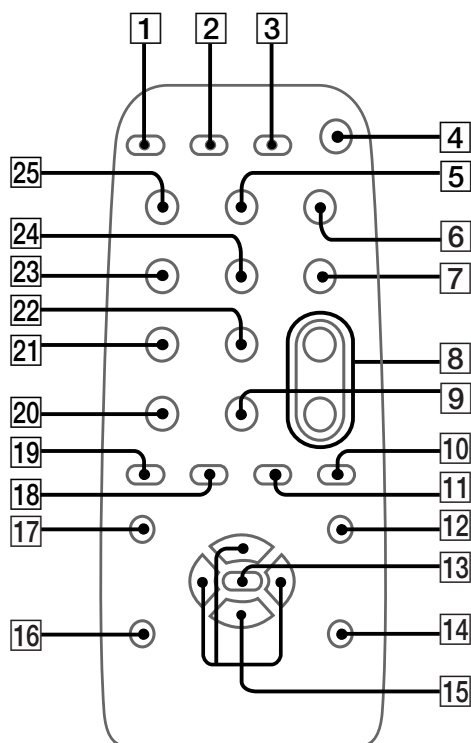
PRESET - [23]
 PRESET + [24]
 PRESET EQ [17]
 P FILE [16]
 SURROUND SPEAKER MODE [12]
 SLEEP [1]
 TAPE A/B [11]
 TUNER/BAND [18]
 TUNING - [21]

TUNING + [22]

VOL +/- [8]

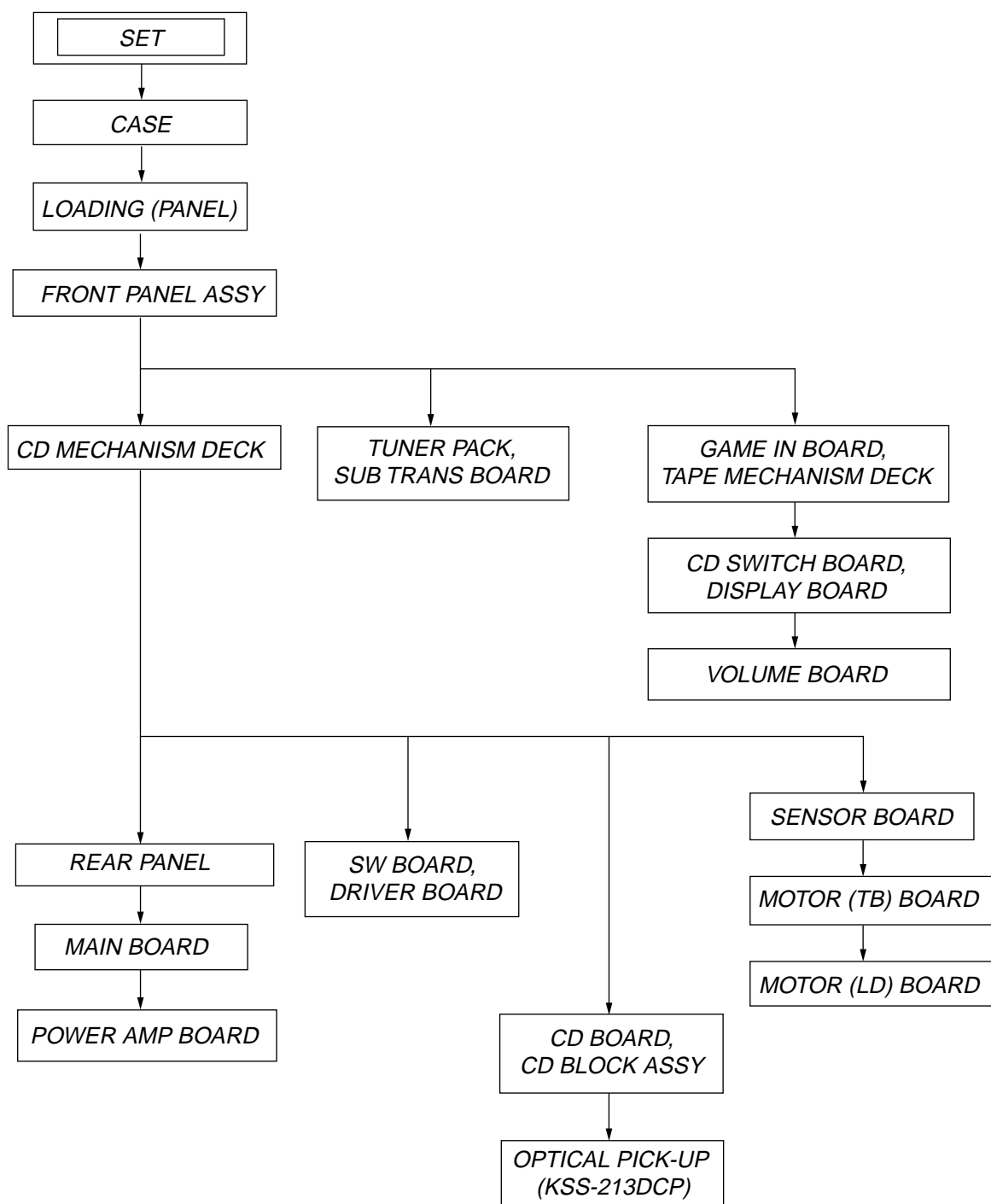
SYMBOLS

I/⏻ (power) [4]
 ◀▶ (play) [25]
 || (pause) [5]
 ■ (stop) [6]
 ◀◀ (go backward) [23]
 ▶▶ (go forward) [24]
 ◀◀ (rewind) [21]
 ▶▶ (fast forward) [22]
 ↑/↓/◀/▶ [15]



SECTION 3 DISASSEMBLY

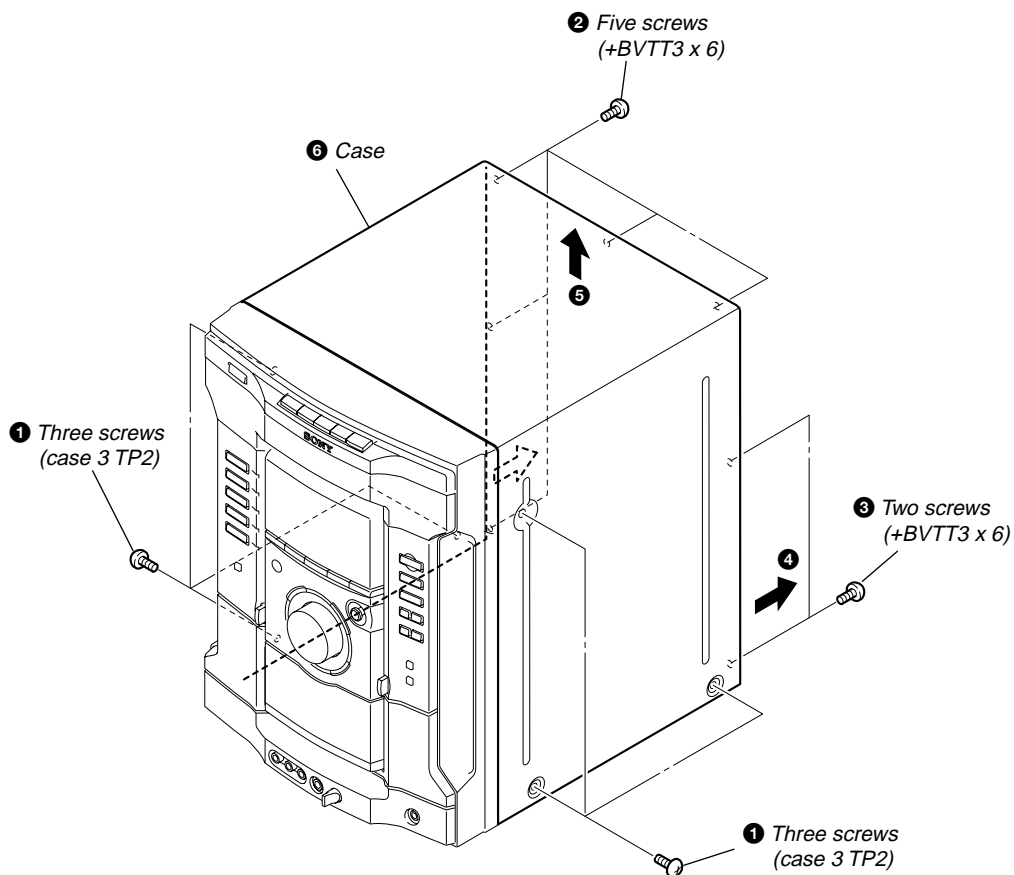
- This set can be disassembled in the order shown below.



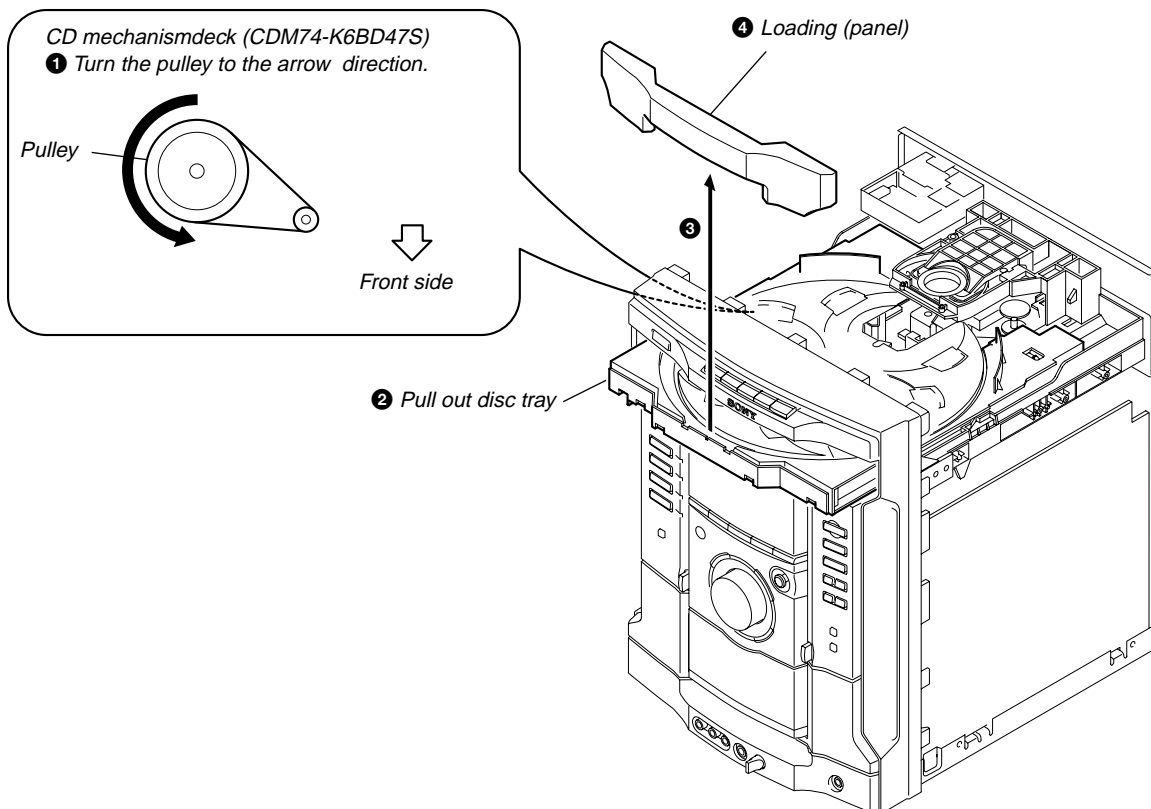
HCD-GN700/GX8800

Note: Follow the disassembly procedure in the numerical order given.

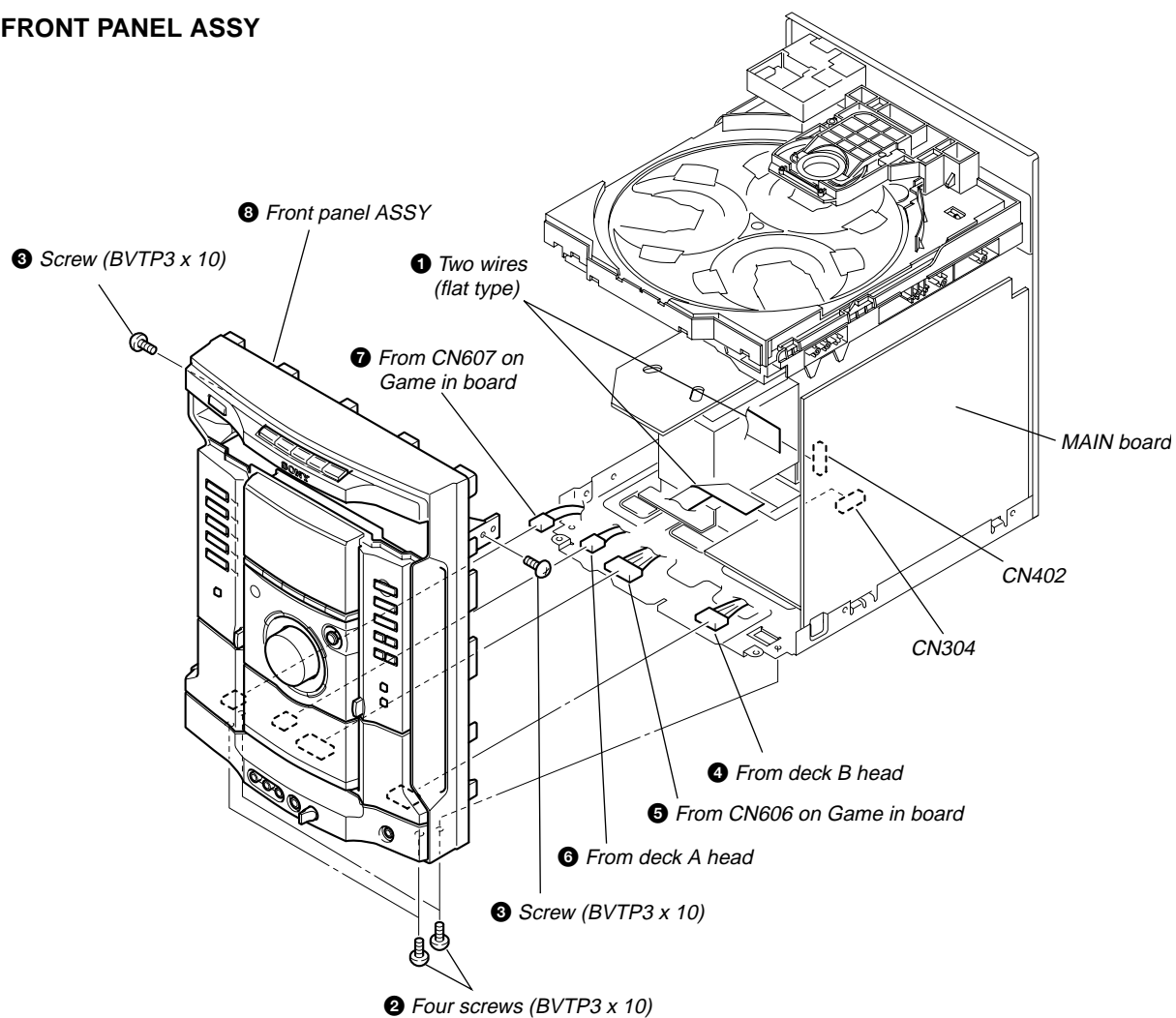
3-1. CASE



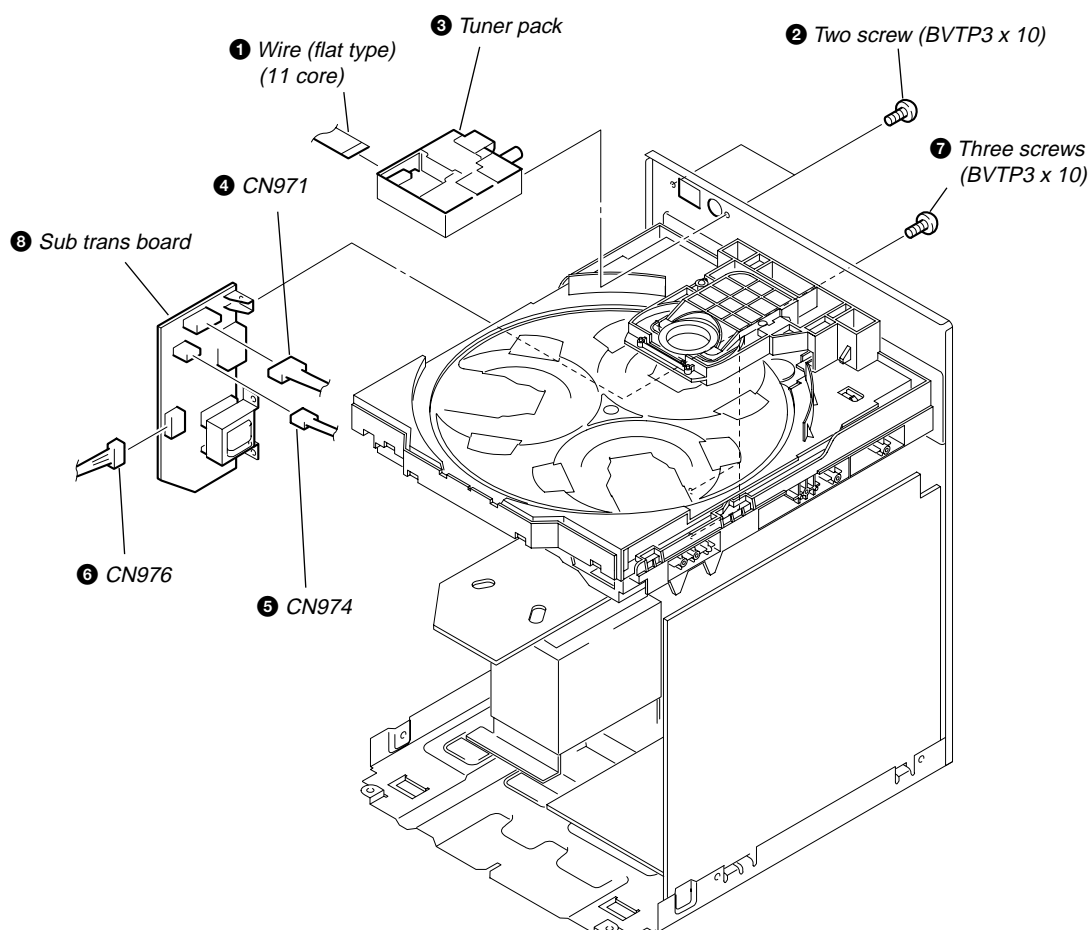
3-2. LOADING (PANEL)



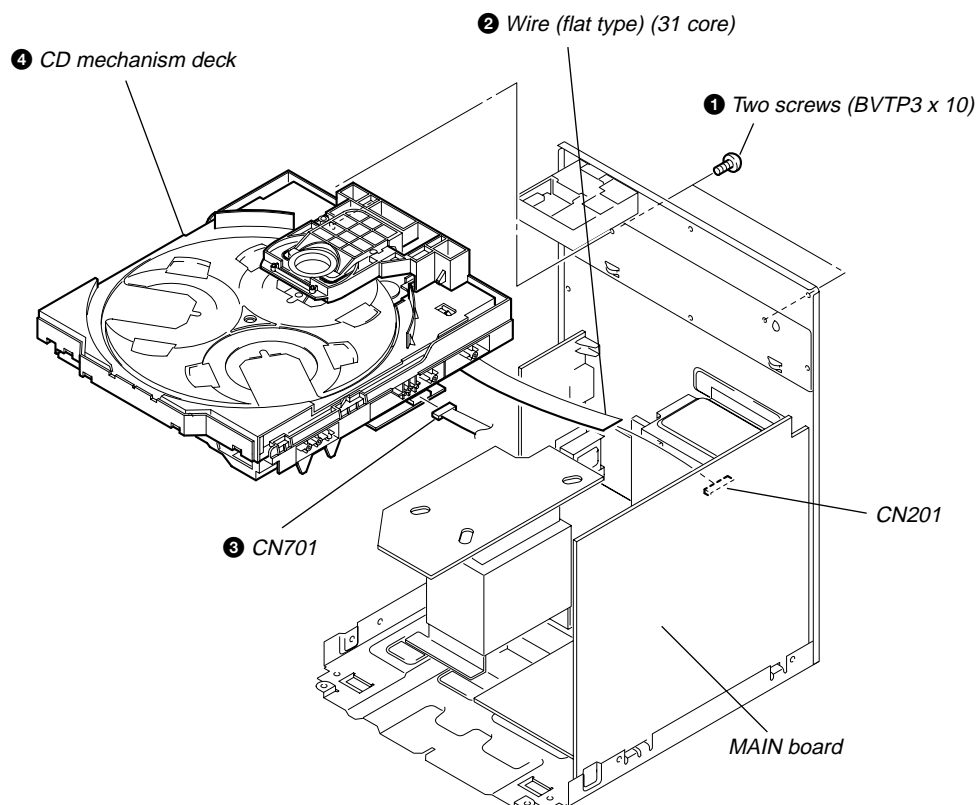
3-3. FRONT PANEL ASSY



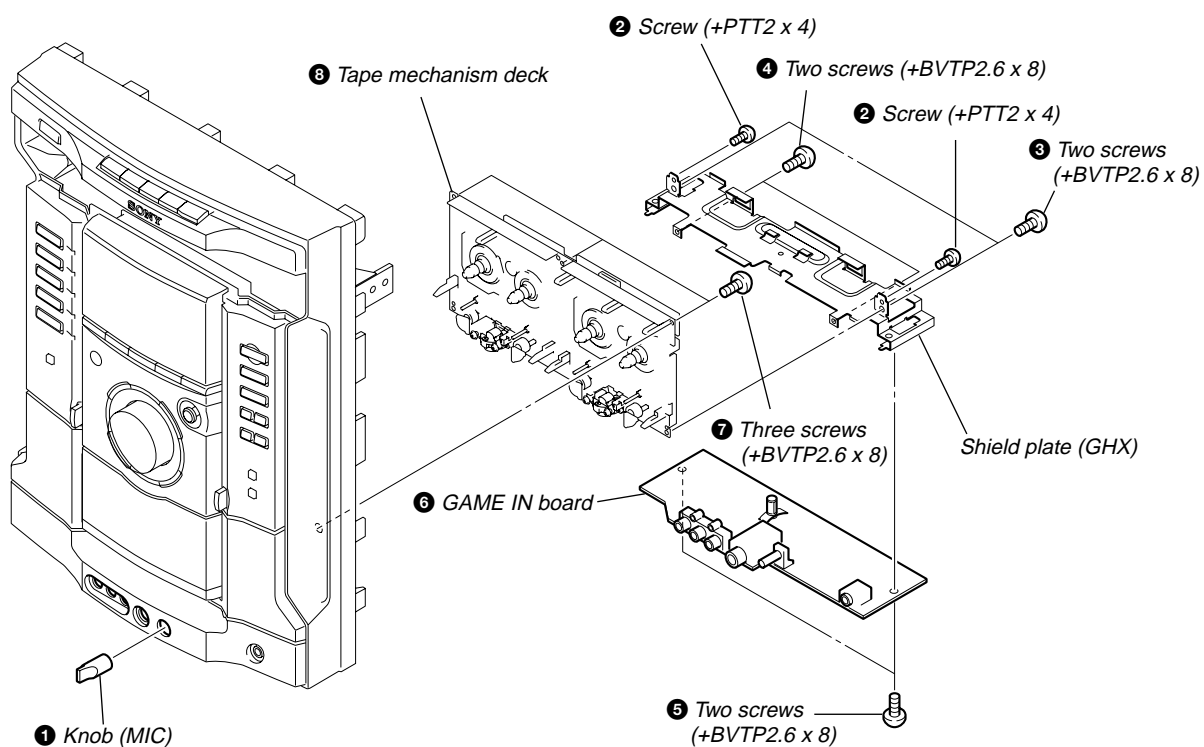
3-4. TUNER PACK, SUB TRANS BOARD



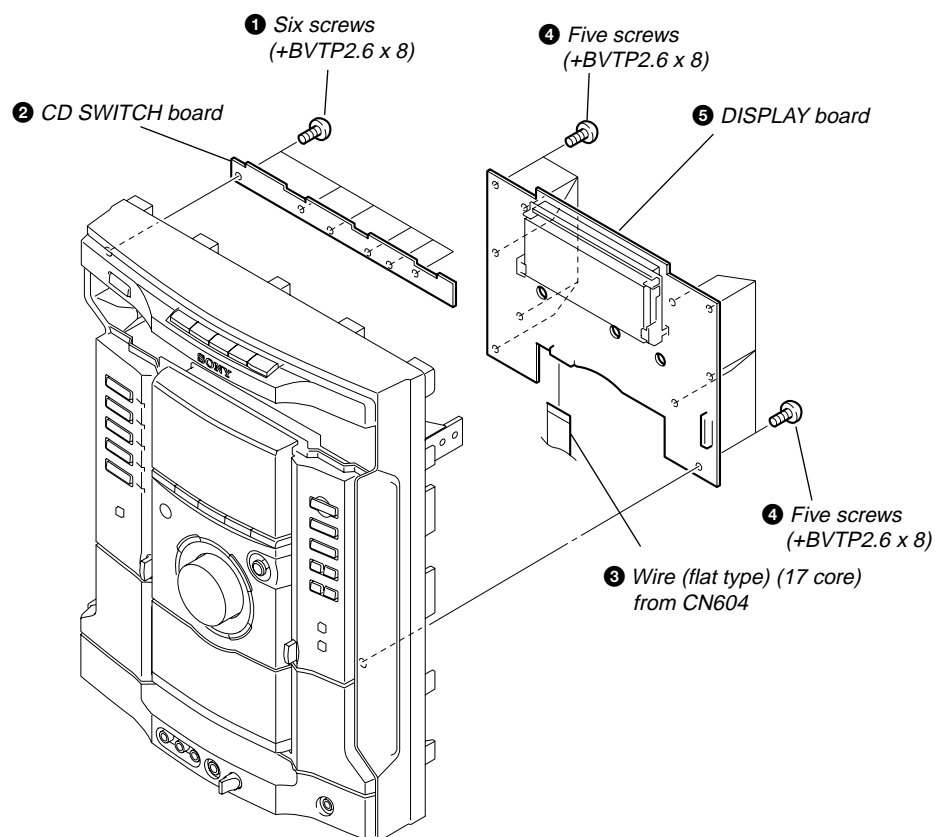
3-5. CD MECHANISM DECK



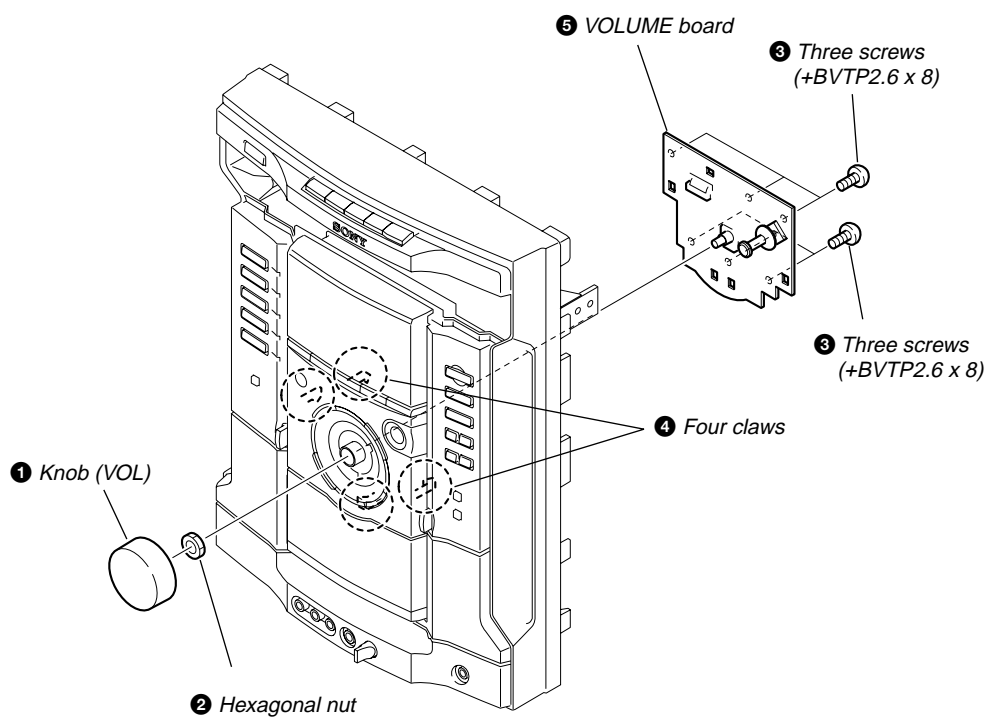
3-6. GAME IN BOARD, TAPE MECHANISM DECK



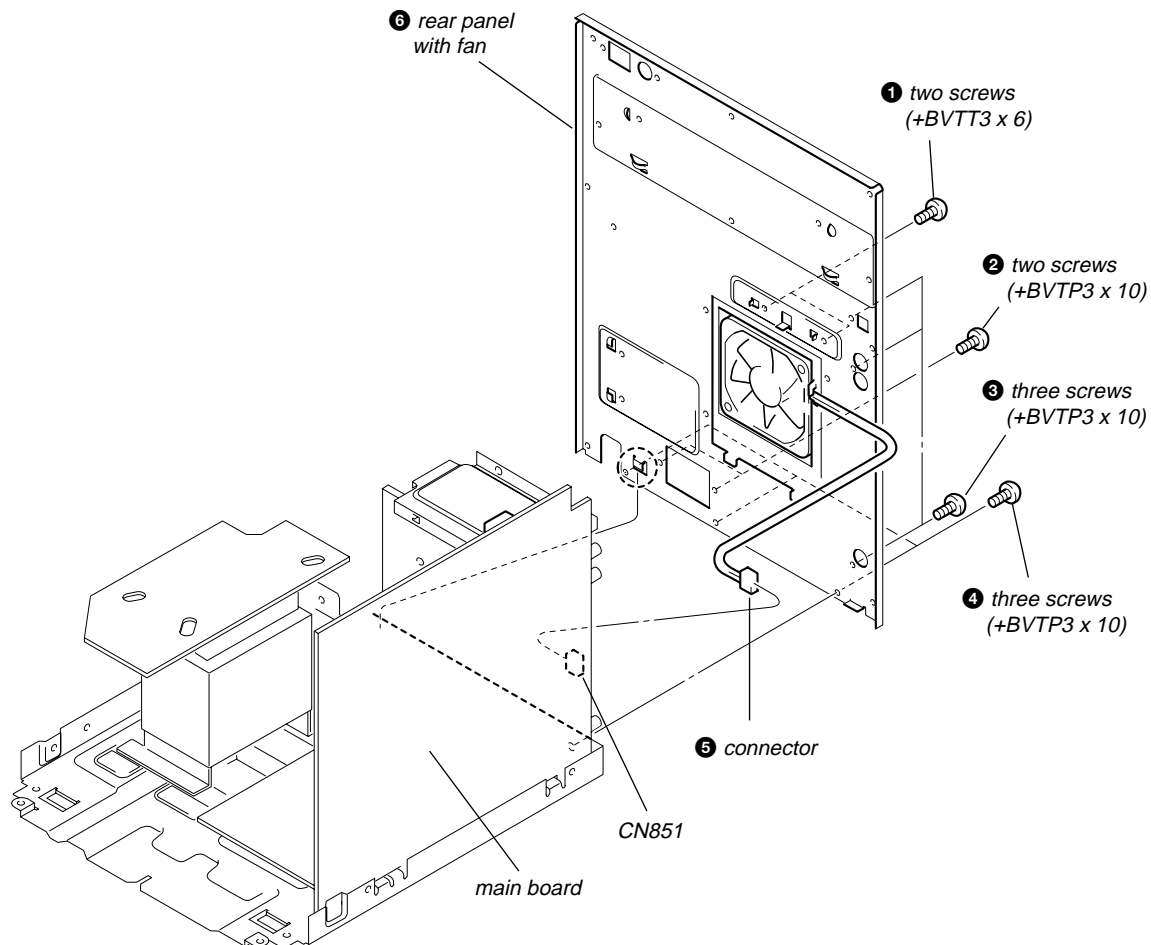
3-7. CD SWITCH BOARD, DISPLAY BOARD



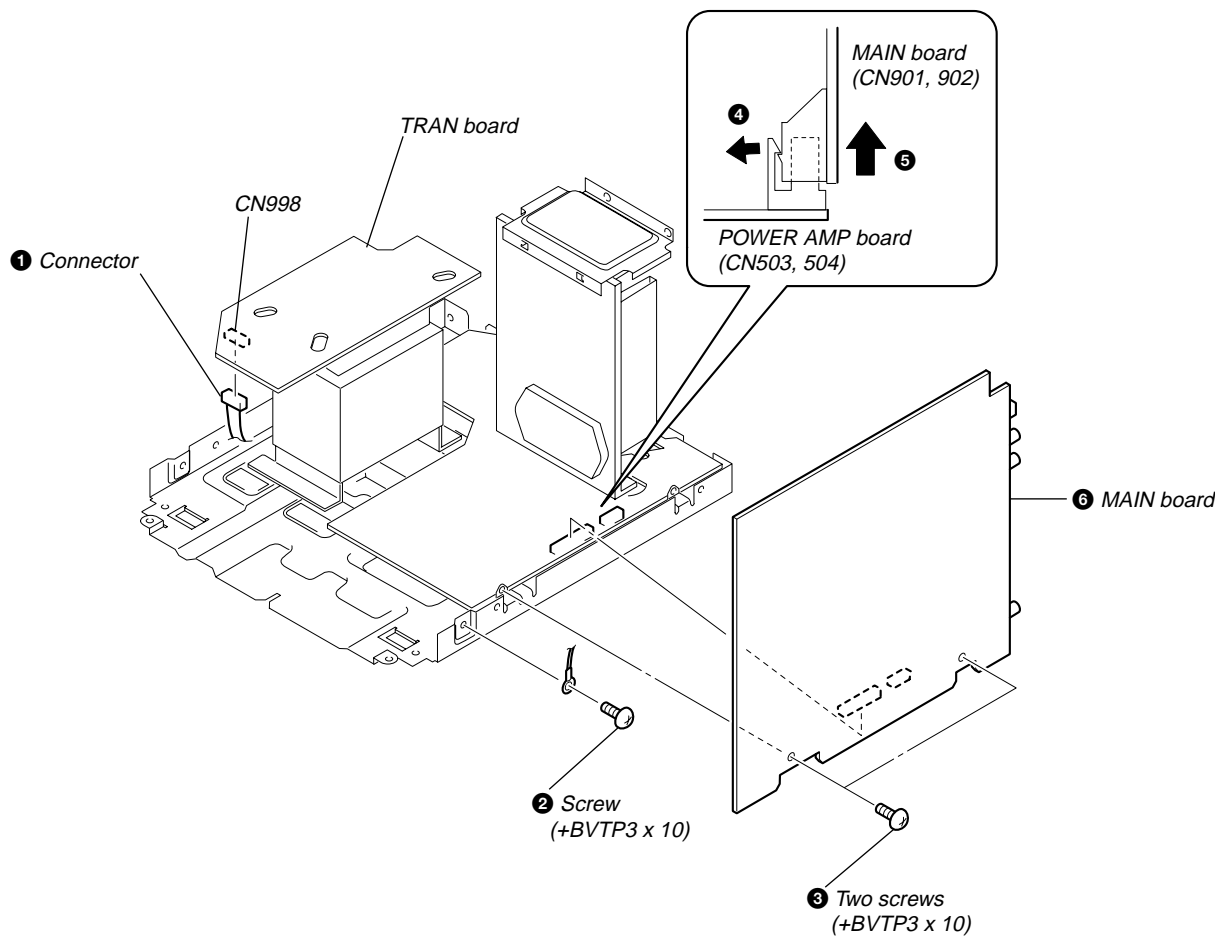
3-8. VOLUME BOARD



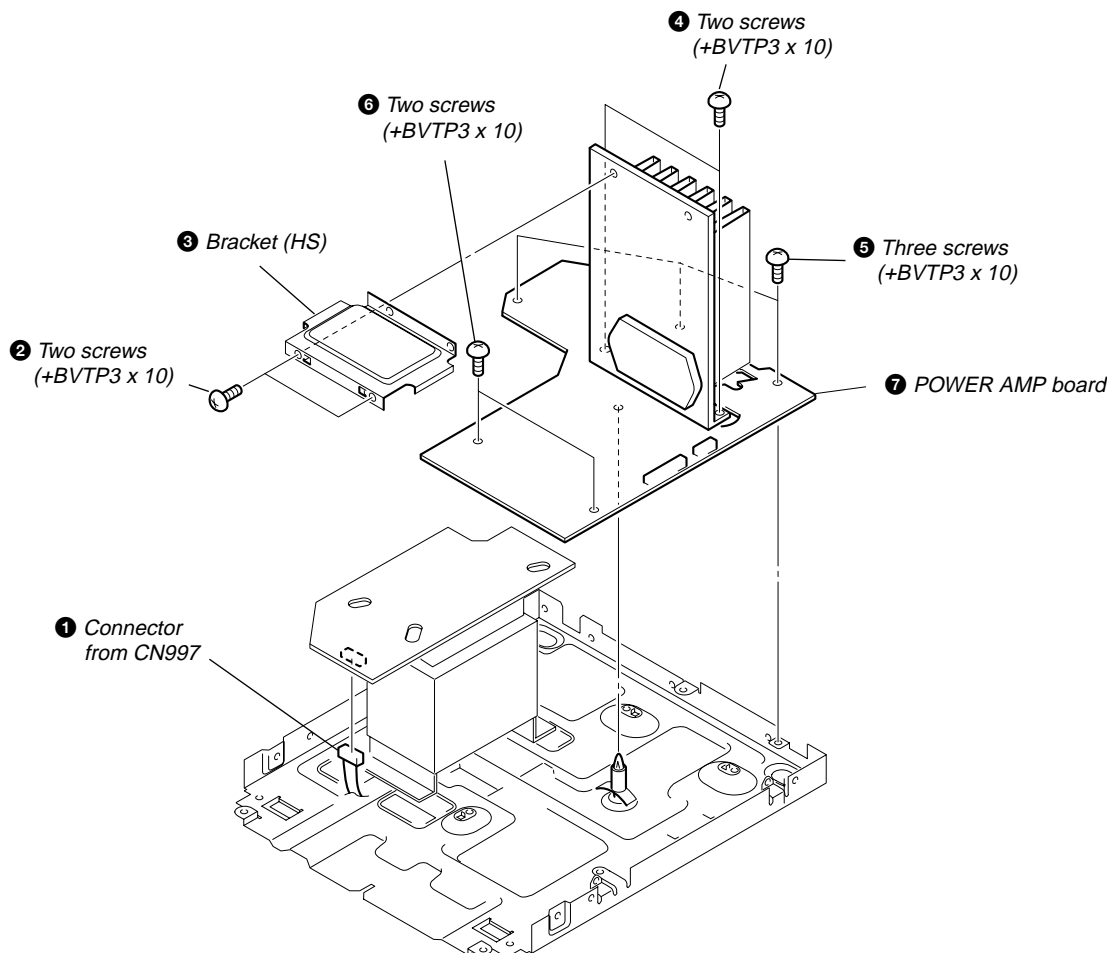
3-9. REAR PANEL



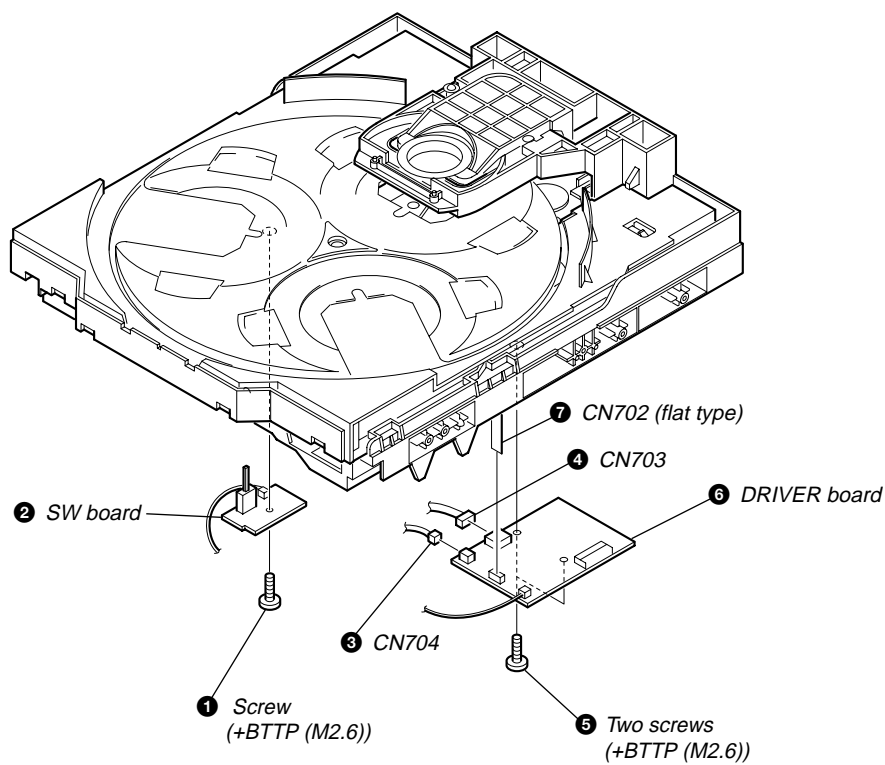
3-10. MAIN BOARD



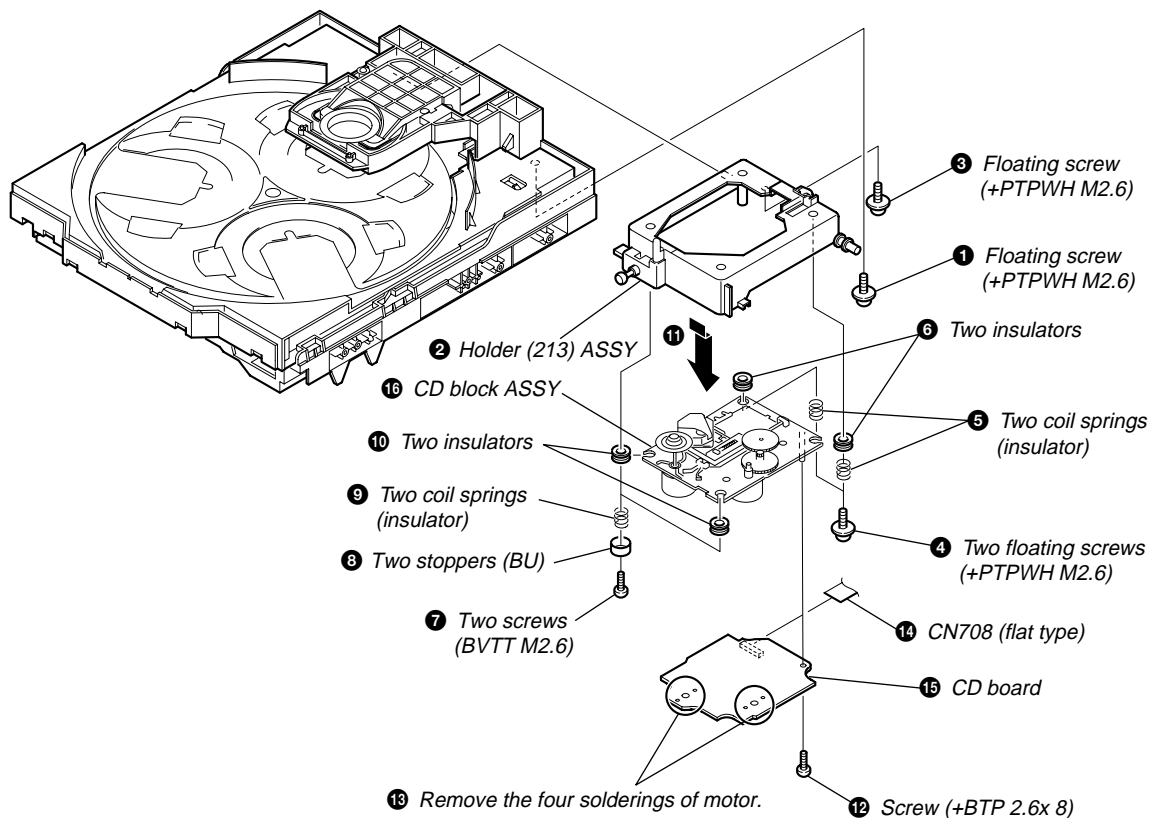
3-11. POWER AMP BOARD



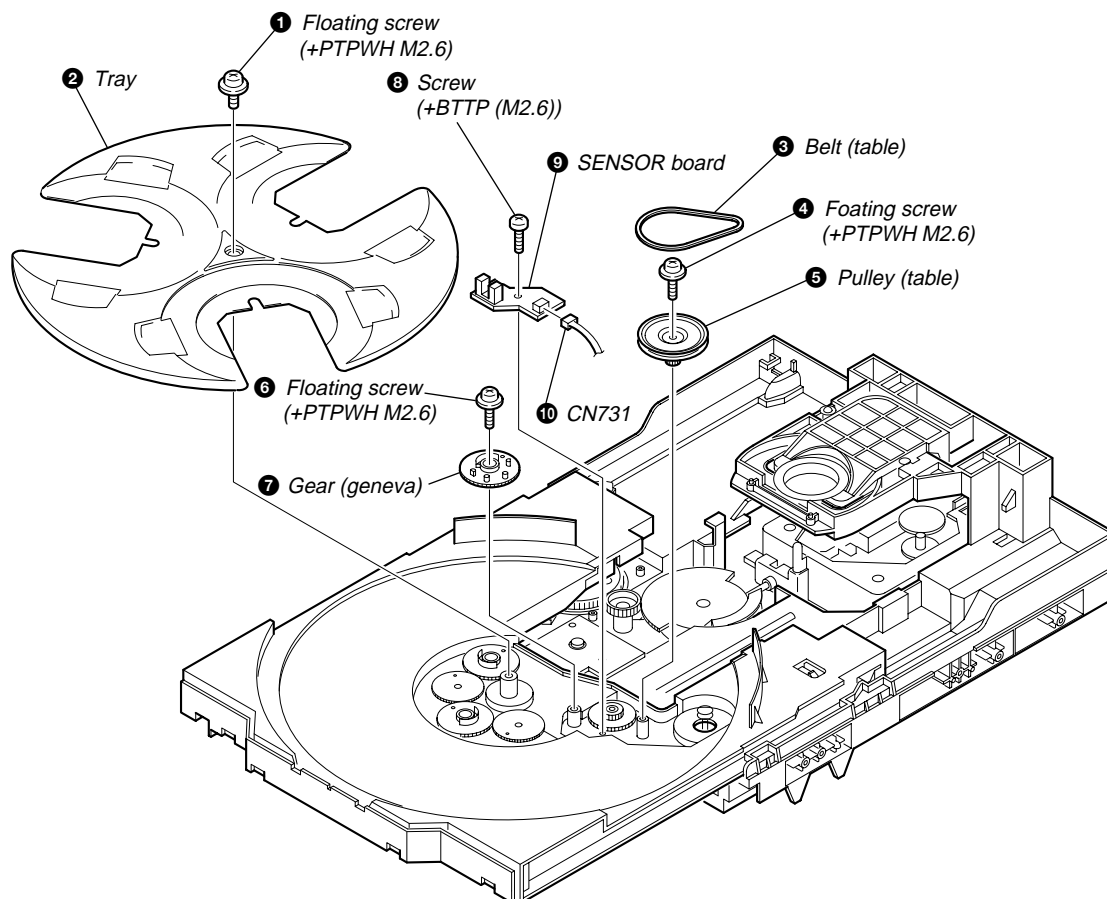
3-12. SW BOARD, DRIVER BOARD

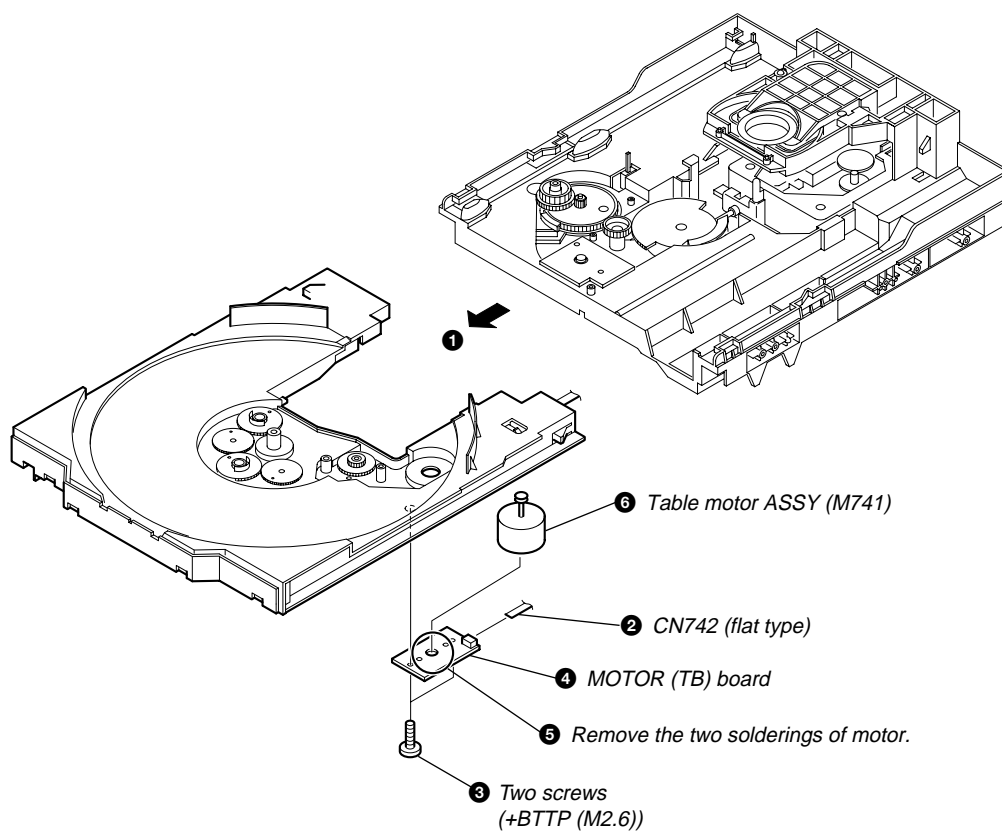
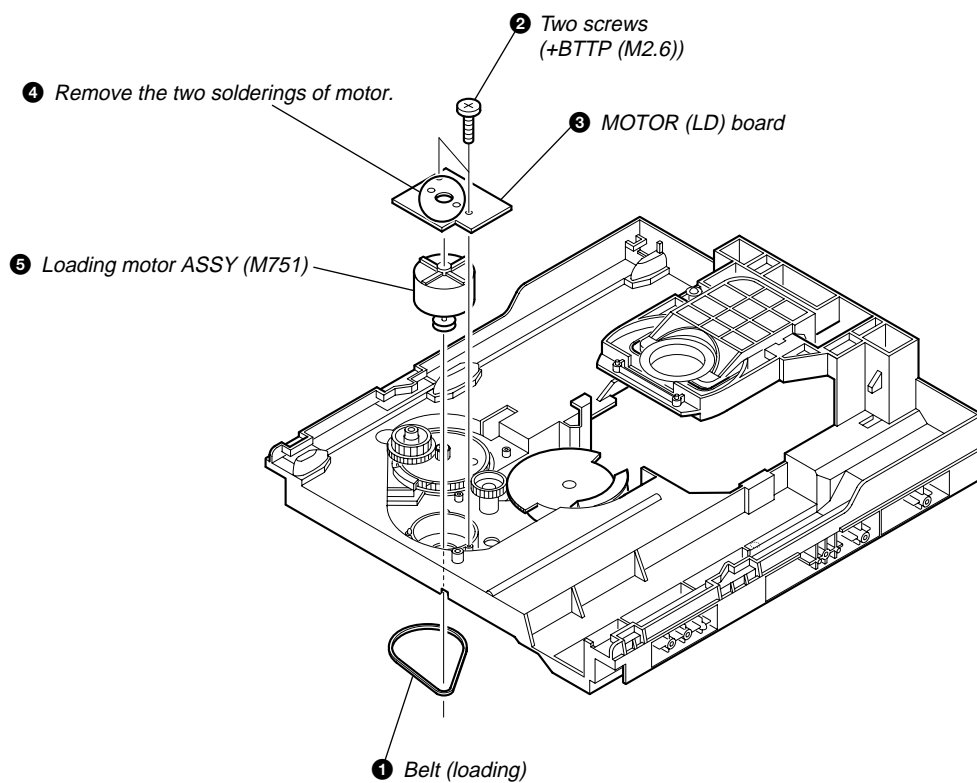


3-13. CD BOARD, CD BLOCK ASSY



3-14. SENSOR BOARD



3-15. MOTOR (TB) BOARD**3-16. MOTOR (LD) BOARD**

SECTION 4 TEST MODE

[GC TEST MODE]

- This mode is used to check the fluorescent indicator tube, LED, model, destination, software version, volume, key and VACS level.

Procedure:

- Press button, button and button simultaneously.
- All LEDs and segments in fluorescent indicator tube are lighted up.
- When you want to enter the software version display mode, press button. The model and destination are displayed.
- Each time button is pressed, the display changes from MC version, GC version, CD version, CDDM version, CDMA version, CDMB version, BDA version, BDB version, ST version, TA version, TM version and TC version in this order, and returns to the MC version display.
- When button is pressed while the version numbers are being displayed except model and destination, the date of the software creation appear. When button is pressed again, the display returns to the software version display. When button is pressed while the date of the software creation is being displayed, the date of the software creation is displayed in the same order of software version display.
- Press button, the key check mode is activated.
- In the key check mode, the fluorescent indicator tube displays "K 0 V 0".
Each time a button is pressed, "K" value increases. However, once a button has been pressed, it is no longer taken into account. "V" value increases in the manner of 0, 1, 2, 3 ... if knob is turned clockwise, or it decreases in the manner of 0, 9, 8, 7 ... if knob is turned counter-clockwise.
- When button is pressed after all LEDs and segments in fluorescent indicator tube light up, the fluorescent indicator tube displays "VACS A + B". A is VACS level which is trigger by signal level while B is VACS level which is trigger by thermal. Total VACS value would be the sum of A and B.
- When button is pressed after all LEDs and segments in fluorescent indicator tube light up, alternate segments in fluorescent indicator tube would light up. If you press button again, another half of alternate segments in fluorescent indicator tube would light up. Pressing button again would case all segments lights up.
- To release this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

[MC TEST MODE]

- This mode is used to check operations of the respective sections of Amplifier, Tuner, and Tape.

Procedure:

- To enter MC Test Mode

- Press button, button and button simultaneously.
- The TAPE A and TAPE B segments flash on the fluorescent indicator tube. The function is changed to VIDEO.

* Check of Amplifier

- When button is pressed, GEQ increases to its maximum and a message "GEQ MAX" appears on the fluorescent indicator tube.
- When button is pressed, GEQ decreases to its minimum and a message "GEQ MIN" appears on the fluorescent indicator tube.
- When button or button is pressed, GEQ is set to flat and a message "GEQ FLAT" appears on the fluorescent indicator tube.
- When the knob is turned clockwise even slightly, the sound volume increases to its maximum and a message "VOLUME MAX" appears for two seconds, then the display returns to the original display.
- When the knob is turned counter-clockwise even slightly, the sound volume decreases to its minimum and a message "VOLUME MIN" appears for two seconds, then the display returns to the original display.

* Check of clock frequency

- To check the frequency of clock used to run the clock of the system, the clock output is available at IC501 pin ③ (CLOCK-OUT) on the MAIN board during MC test mode.
- The frequency is 32.768 kHz.

* Tape function

- When a tape is inserted in Deck B and recording is started, the function is changed to VIDEO automatically. When button is pressed during recording in function, ALC (Automatic Logic Control) is turned on.
- After recording is stopped by pressing button, press button will change the function to TAPE B and rewind Tape B until the recording start position and playback of Tape B is started. If the button is pressed for a pause and pressed again to resume recording during recording time, when tape deck B is rewind, tape deck B will be rewind until the position where the pause is applied.

* AMS Test Mode

- Select the function "TAPE A" or "TAPE B".
- Select Loop or Relay direction mode by pressing the button. Insert a test tape AMS-110A or AMS-120 to selected tape deck.
- Press the button to enter the AMS test mode.
- After the test tape is rewind to the beginning of the tape, the AMS+ is checked, and the mechanism is shut off after detecting the AMS signal twice.
- Then the AMS- is checked and the mechanism is shut off after detecting the AMS signal twice.
- When the check is complete, a message of either OK or NG appears.




* To release MC Test mode.

- To release this mode, press button.
- The cold reset is enforced at the same time.

[COLD RESET]

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.


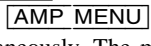
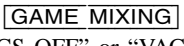
Procedure:

- Press  button,  button, and  button simultaneously.
- The fluorescent indicator tube becomes blank for a while, and the set is reset.

[VACS ON/OFF]

- This mode is used to switch ON and OFF the VACS (Variable Attenuation Control System).


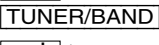

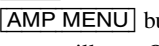

Procedure:

- Press  button to turn the set ON.
- Press  button and  button simultaneously. The message "VACS OFF" or "VACS ON" appears.

[TUNER STEP CHANGE]

- The step interval of AM channels can be toggled between 9 kHz and 10 kHz.



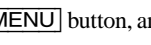
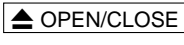



Procedure:

- Press  button to turn the set ON.
- Press  button to select the "AM".
- Press  button to turn the set OFF.
- Press  button and  button simultaneously. The system will turn ON automatically. The message "AM 9k STEP" or "AM 10k STEP" appears and thus the channel step is changed.

[CD SERVICE MODE]

- This mode let you move the CD sled motor freely. Use this mode when you want to clean the optical pick-up.

Procedure:


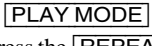
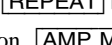

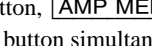
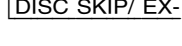

- Press  button to turn the set ON.
- Select CD function.
- Press ,  button, and  button simultaneously.
- The CD service mode is activated. The message "SERVICE MODE" appears.
- With the CD in stop status, press  button to move the optical pick-up to outside track, or press  button to move to inside track. The message "SLED OUT" or "SLED IN" appears.
- To release this mode, press  button.

[AGING MODE]

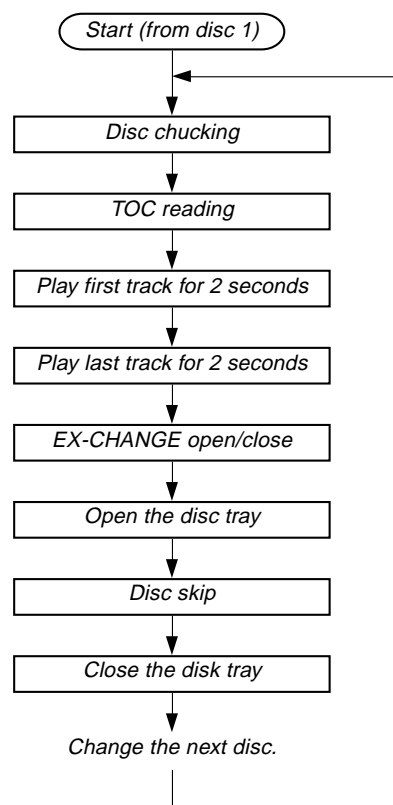
This mode can be used for operation check of CD section.

- If an error occurs, the aging operation would stops and the status is displayed.
- If there are no error occurs, the aging operation would continues repeatedly.

Procedure:

- Press  button to turn the set ON
- Select CD function.
- Load three discs on the disc tray.
- Press  button to select the "ALL DISCS" mode, and press the  button to select "REPEAT OFF" mode.
- Press ,  button, and  button simultaneously.
- Aging operation is started.
- To release this mode, press  button or disconnect the power cord to turn the power OFF.

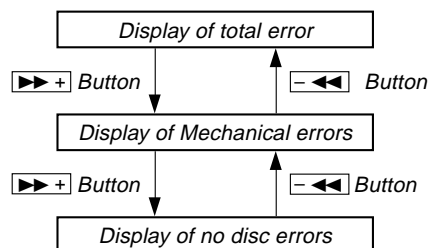
Aging mode sequence:



• Display when an error occurred (CD Error Code Mode)

Procedure:

1. Press button, **AMP MENU** button and **DISC 1** button simultaneously to enter the error code display mode.
2. The fluorescent indicator tube displays the number of total error.
3. Each time button or button is pressed, display change as below



4. To clear the error record, operate the cold reset. (Refer to the "MC COLD RESET")
5. To release this mode, press the button or disconnect the power plug to turn the power OFF.

- 1) Display of total error

Display

EMC**EDC**

EMC**: The number of mechanical errors.

EDC**: The number of no disc errors after chucking the disc.

- 2) Display of mechanical errors

Display

M*\$%?/:&##00

M*: The number of mechanical error ("00" is latest one)

(Press button or button to display next error)

\$\$: Not used

%%: Loading related error (Second figure is not used)

D: Stop by the problem other than mechanical problem while closing.

E: Stop by the problem other than mechanical problem while opening.

C: Stop by the problem other than mechanical problem while chucking up.

F: Stop by the problem other than mechanical problem while chucking down.

&=: Emerging error

01: Stop while chucking up.

02: Stop while chucking up.

03: Time-out of EX-CHANGE open.

05: Time-out of EX-CHANGE close.

##: Not used

- 3) Display of no disc errors

Display

D*\$%?/:&##00

D*: The number of mechanical error ("00" is latest one)

(Press button or button to display next error)

\$\$: Error type

01: Focus error

02: GFS error

03: Setup error

%%: Not used

&=:

00: No disc judgment without chucking retry.

01: No disc judgment after chucking retry.

##: The state when judged as no disc

01: Stop

02: Setup

03: TOC reading

04: Access

05: Playback

06: Pause

07: Manual search (Play)

08: Manual search (Pause)

[CD REPEAT 5 LIMIT OFF MODE]

- The number of repeat for CD playback is 5 times when the repeat mode is "REPEAT ALL". This mode enables CD to repeat playback for limitless times.

Procedure:

1. Press button to turn the set ON.
2. Select CD function.
3. Press button, **REPEAT** button and **CD** button simultaneously to enter the CD repeat 5 limit off mode and the fluorescent indicator tube displays "LIMIT OFF".
3. To release this mode, operate the cold reset. (Refer to the "MC COLD RESET")

[CD SHIP MODE (WITH MEMORY CLEAR)]

- This mode moves the optical pick-up to the position durable to vibration and clears all data including preset data stored in the RAM to initial conditions. Use this mode when returning the set to the customer after repair.




Procedure:

1. Press button to turn the set ON.
2. Select CD function.
3. Press button, **AMP MENU** button and **GAME** button simultaneously. The set will power off automatically.
4. After the "STANDBY" blinking display finish, a message "LOCK" is displayed on the fluorescent indicator tube and the CD ship mode is set.

[CD SHIP MODE (WITHOUT MEMORY CLEAR)]

- This mode moves the optical pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.





Procedure:

1. Press  button to turn the set ON.
2. Select CD function.
3. Press  button and  button simultaneously. The set will power off automatically.
4. After the "STANDBY" blinking display finish, a message "LOCK" is displayed on the fluorescent indicator tube and the CD ship mode is set.


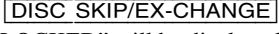
[CD POWER MANAGE]

- This mode let you switch on or off power supply to the BU during TUNER function.
- When CD POWER is set to OFF, the power supply to the BU is cut off during TUNER function. It will increase the time taken to access CD when function change from TUNER to CD but it will improve tuner reception.
- When CD POWER is set to ON, the power supply to the BU is not cut off during TUNER function. It will reduce the time taken to access CD when function change from TUNER to CD but it will decrease tuner reception performance.




Procedure:

1. Press  button to turn the set ON.
2. Select CD function.
3. Press  button to turn the set OFF.
4. Press  button and  button simultaneously. The set will power on automatically.
5. The message "CD POWER ON" or "CD POWER OFF" will be displayed on the fluorescent indicator tube.

[CD TRAY LOCK MODE]

- This mode let you lock the disc trays. When this mode is activated, the disc tray will not open when  button or  button is pressed. The message "LOCKED" will be displayed in the will be displayed on the fluorescent indicator tube.




Procedure:

1. Press  button to turn the set ON.
2. Select CD function.
3. Press  button and  button simultaneously and hold down until "LOCKED" or "UNLOCKED" displayed on the fluorescent indicator tube (around 5 seconds).

[MD/VIDEO SWITCHING]

- This mode let you switch from MD to VIDEO and vice-versa.

Procedure:

1. Press  button to turn the set ON.
2. Select MD function.
3. Press  button and  button simultaneously. The function will change to VIDEO. Press the same buttons again to change from VIDEO to MD.

SECTION 5
MECHANICAL ADJUSTMENTS

Precaution

- 1. Clean the following parts with a denatured alcohol-moistened swab:
record/playback heads pinch rollers
erase head rubber belts
capstan idlers
- 2. Demagnetize the record/playback head with a head demagnetizer.
- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	3.06 N • m to 6.96 N • m 31 to 71 g • cm (0.43 – 0.98 oz • inch)
FWD back tension	CQ-102C	0.19 N • m to 0.58 N • m 2 to 6 g • cm (0.02 – 0.08 oz • inch)
REV	CQ-102RC	3.06 N • m to 6.96 N • m 31 to 71 g • cm (0.43 – 0.98 oz • inch)
REV back tension	CQ-102RC	0.19 N • m to 0.58 N • m 2 to 6 g • cm (0.02 – 0.08 oz • inch)
FF/REW	CQ-201B	6.96 N • m to 14.02 N • m 71 to 143 g • cm (0.98 – 1.99 oz • inch)
FWD tension	CQ-403A	9.80 N • m 100 g or more (3.53 oz or more)
REV tension	CQ-403R	9.80 N • m 100 g or more (3.53 oz or more)

SECTION 6
ELECTRICAL ADJUSTMENTS

DECK SECTION	0 dB=0.775 V
--------------	--------------

- 1. Demagnetize the record/playback head with a head demagnetizer.
- 2. Do not use a magnetized screwdriver for the adjustments.
- 3. After the adjustments, apply suitable locking compound to the parts adjust.
- 4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
- 5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
- 6. The adjustments should be performed for both L-CH and R-CH.
- 7. Switches and controls should be set as follows unless otherwise specified.

• Test Tape

Tape	Signal	Used for
P-4-A100	10 kHz, -10 dB	Azimuth Adjustment

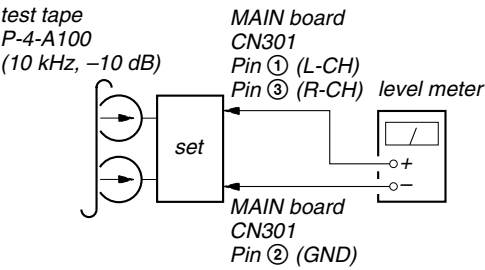
RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT

DECK A	DECK B
--------	--------

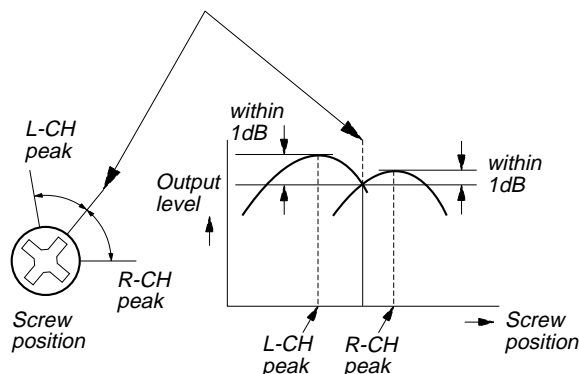
Note: Perform this adjustments for both decks

Procedure:

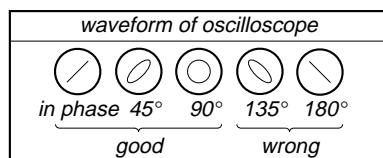
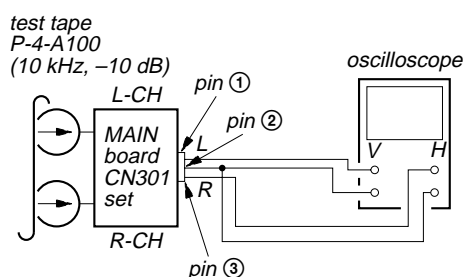
- 1. Mode: Playback



- Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.



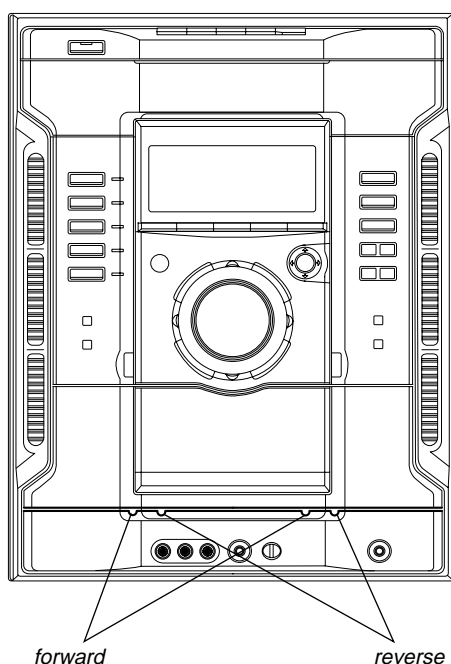
- Mode: Playback



- After the adjustments, apply suitable locking compound to the pots adjusted.

Adjustment Location: Playback Head (Deck A).

Record/Playback/Erase Head (Deck B).

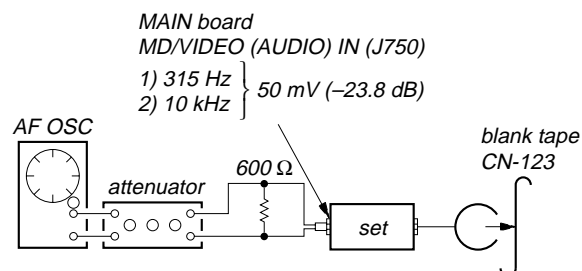


REC BIAS ADJUSTMENT DECK B

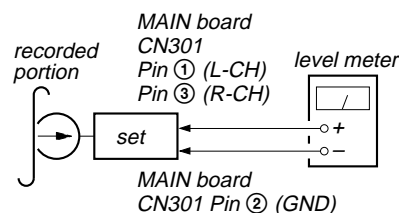
Procedure:

In the MC test mode, the "REC memory mode" is convenient for this adjustment. In the "REC memory mode", when the REC starts the input signal FUNCTION is switched to VIDEO automatically. When the REC stops, the tape returns near to the recording start position.

- Press MD (VIDEO) button to select VIDEO. (This step is not necessary if the above test mode has already been set)
- Insert a tape into deck B.
- After press REC PAUSE/START button, press REC PAUSE/START button, then recording start.
- Mode: Record



- Mode: Playback



- Confirm the playback signal recorded in step 3 becomes adjustable level as follows.

If these levels are not adjustable level, adjust the RV304 (L-CH) and RV354 (R-CH) on the MAIN board to repeat steps 4 and 5.

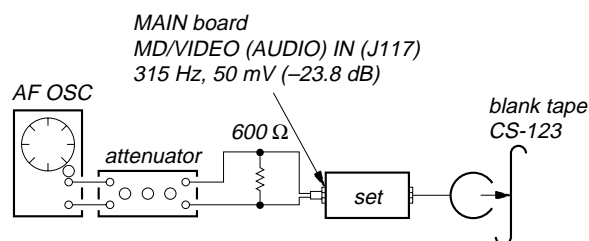
Adjustable level: Playback output of 315 Hz to playback output of 10 kHz: ± 1.0 dB

Adjustment Location: MAIN board

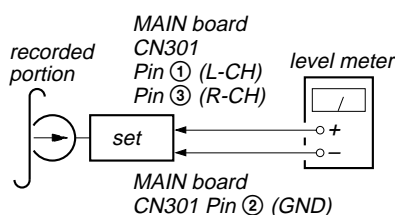
REC LEVEL ADJUSTMENT **DECK B****Procedure:**

In the MC test mode, the "REC memory mode" is convenient for this adjustment. In the "REC memory mode", when the REC starts the input signal FUNCTION is switched to VIDEO automatically. When the REC stops, the tape returns near to the recording start position.

1. Press **MD (VIDEO)** button to select VIDEO. (This step is not necessary if the above test mode has already been set)
2. Insert a tape into deck B.
3. After press **REC PAUSE/START** button, press **REC PAUSE/START** button, then recording start.
4. Mode: Record



5. Mode: Playback



6. Confirm the play back signal recorded in step 3 becomes adjustable level as follows.

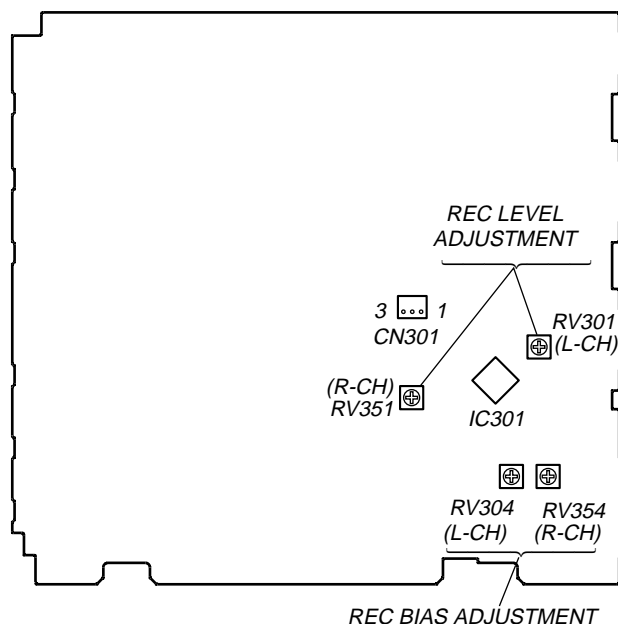
If these levels are not adjustable level, adjust the RV301 (L-CH) and RV351 (R-CH) on the MAIN board to repeat steps 4 and 5.

Adjustable level:

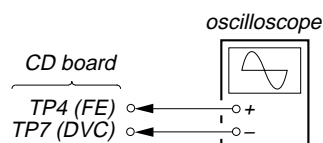
CN301 PB level: 47.2 to 53.0 mV (-24.3 to -23.3 dB)

Adjustment Location: MAIN board

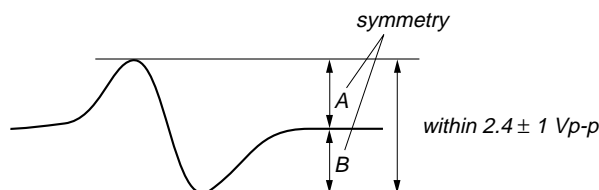
– MAIN BOARD (Component Side) –

**CD SECTION****Note:**

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

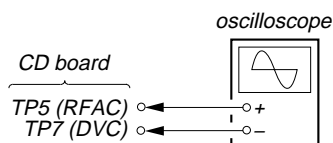
S-curve Check**Connection:****Procedure:**

1. Connect an oscilloscope to test point TP4 (FE) and TP7 (DVC) on the CD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in and turned power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out)
4. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2.4 ± 1 Vp-p.

S-curve waveform

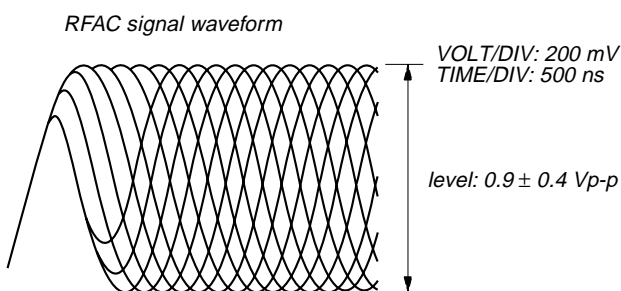
- Note:**
- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
 - Take sweep time as long as possible and light up the brightness to obtain best waveform.

Checking Location: CD board (SIDE B)
(See page 24.)

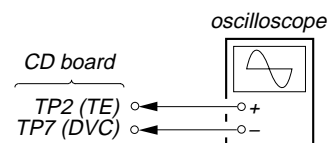
RFAC Level Check**Connection:****Procedure:**

1. Connect an oscilloscope to test point TP5 (RFAC) and TP7 (DVC) on the CD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Confirm that oscilloscope waveform is clear and check RFAC signal level is correct or not.

Note: A clear RFAC signal waveform means that the shape “ $\hat{\diamond}$ ” can be clearly distinguished at the center of the waveform.

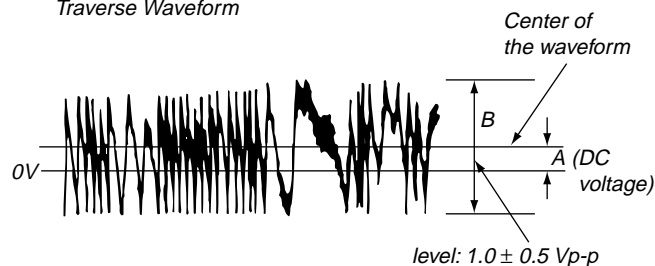


Checking Location: CD board (SIDE B)
(See page 24.)

E-F Balance Check**Connection:****Procedure:**

1. Connect an oscilloscope to test point TP2 (TE) and TP7 (DVC) on the CD board.
2. Turn the power on.
3. Select the function “CD”.
4. Press three buttons of [ENTER], [▶▶], and [SURROUND MODE] simultaneously to set the CD service mode.
5. Put the disc (YEDS-18) in to playback the number five track.
6. Press the [◀◀] button. The message “TRAVERSE” is displayed. (The tracking servo and the sledding servo are turned OFF)
7. Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform. Confirm the following :
 $A/B \times 100 = \text{less than } \pm 22\%$

Traverse Waveform

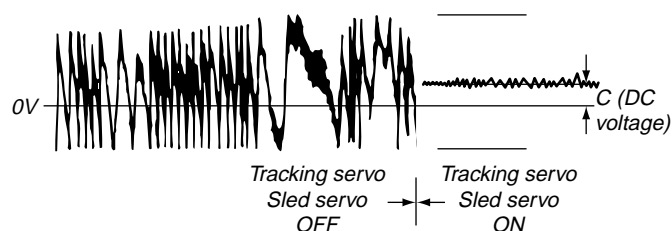


8. Press the [◀◀] button. The message “TRAVERSE” is displayed. (The tracking servo and sledding servo are turned ON)
Confirm the C (DC voltage) is almost equal to the A (DC voltage) is step 5.
9. To exit from this mode, perform as follows.
 - 1) Move the optical pick-up to the most inside track.
 - 2) Press three buttons of [■], [CLEAR], and [DISPLAY] simultaneously. (cold reset)

Notes:

- Always move the optical pick-up to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
- Do not run the sled motor excessively, otherwise the gear can be chipped.

Traverse Waveform

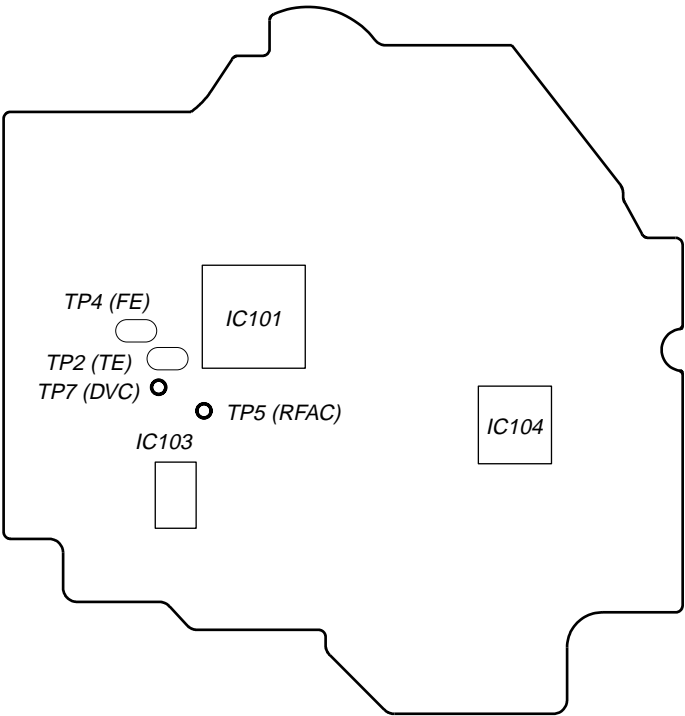


Checking Location: CD board (SIDE B) (See page 24.)

HCD-GN700/GX8800




Checking Location:

– CD BOARD (SIDE B) –

















SECTION 7 DIAGRAMS

Note on Schematic Diagram:



- All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$
50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{ W}$ or less unless otherwise specified.
-  : internal component.
-  : nonflammable resistor.
-  : fusible resistor.

Note:

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

-  : panel designation.
-  : B+ Line.
-  : B- Line.
-  : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- CD board section
no mark: CD PLAY
- Other board section
no mark: TUNER (FM/AM)
- () : CD PLAY
- < > : TAPE PLAY
- [] : TAPE REC
- Voltages are taken with a VOM (Input impedance $10\text{ M}\Omega$).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 -  : TUNER (FM/AM)
 -  : TAPE PALY (DECK A)
 -  : TAPE PALY (DECK B)
 -  : RECORD
 -  : CD PALY (ANALOG OUT)
 -  : CD PALY (DIGITAL OUT)
 -  : MD/VIDEO (AUDIO) IN
 -  : GAME IN (AUDIO)
 -  : GAME IN (VIDEO)
 -  : MIC INPUT
- Abbreviation
 - AR : Argentine model
 - E2 : 120 V AC Area in E model
 - E3 : 240 V AC Area in E model
 - E51 : Chilean and Peruvian model
 - MX : Mexican model

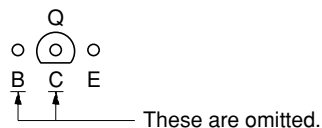
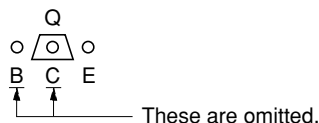
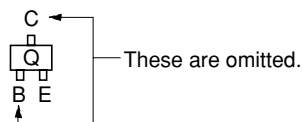
Note on Printed Wiring Boards:

-  : parts extracted from the component side.
-  : Pattern from the side which enables seeing.
(The other layers' Patterns are not indicated.)

Caution:

Pattern face side: Parts on the pattern face side seen from the (Side B) pattern face are indicated.
Parts face side: Parts on the parts face side seen from the (Side A) parts face are indicated.

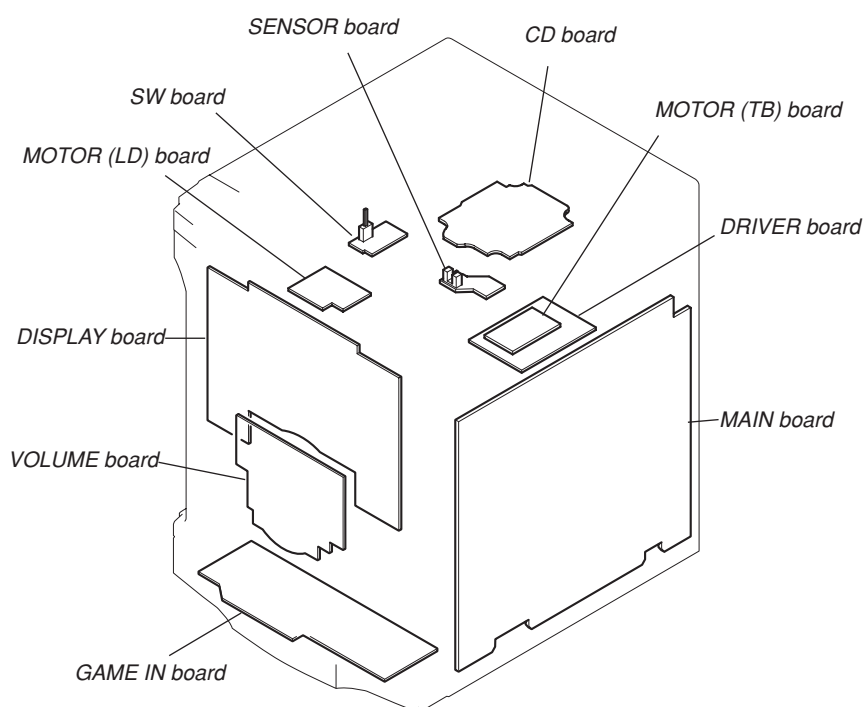
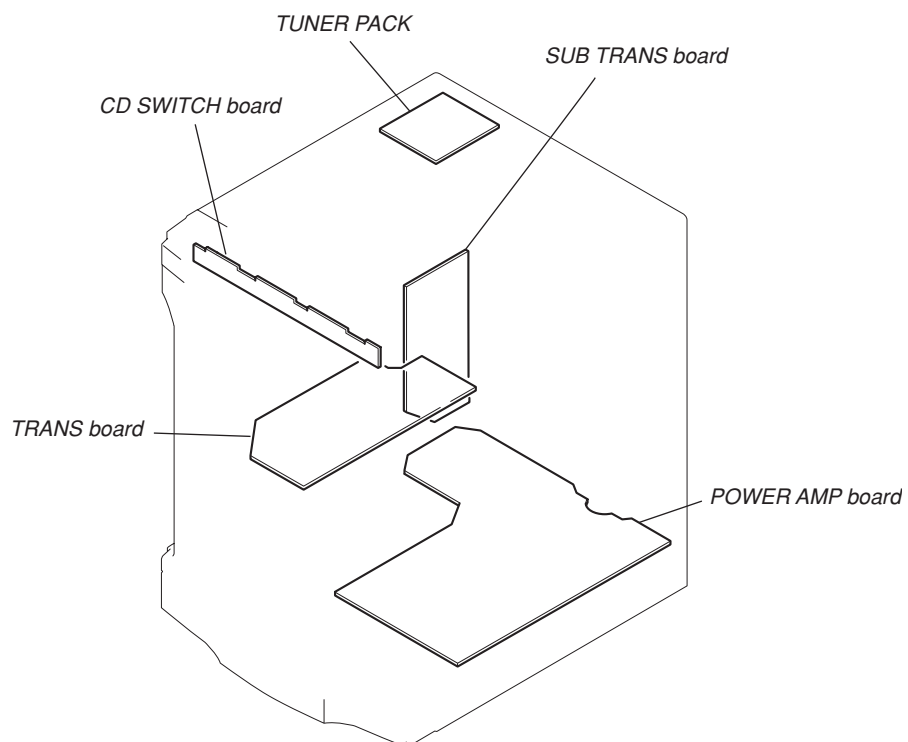
- Indication of transistor.



- Abbreviation

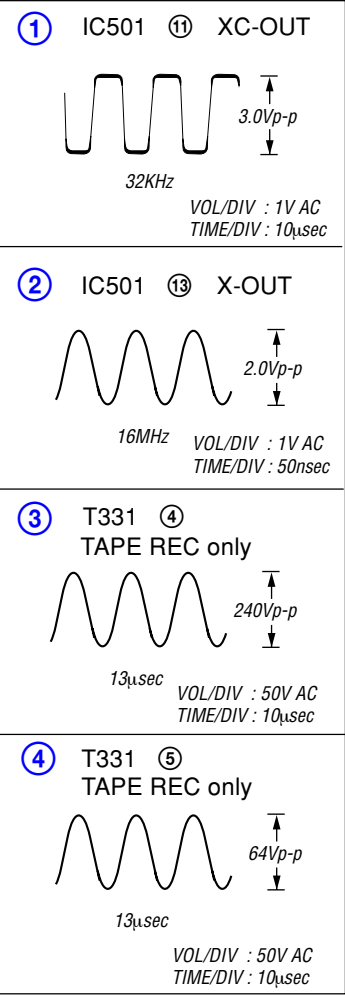
AR : Argentine model
E2 : 120 V AC Area in E model
E3 : 240 V AC Area in E model
E51 : Chilean and Peruvian model
MX : Mexican model

7-1. CIRCUIT BOARD LOCATION

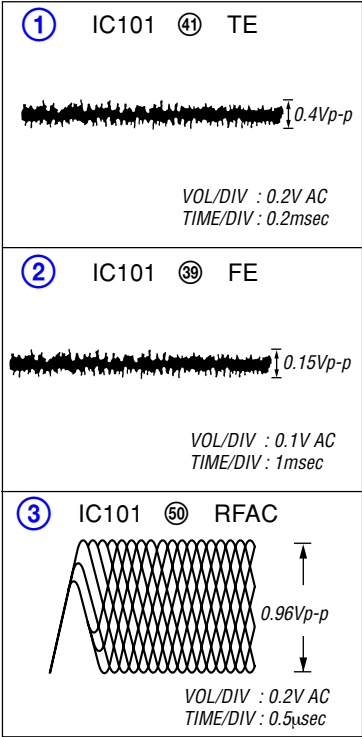


● WAVEFORMS

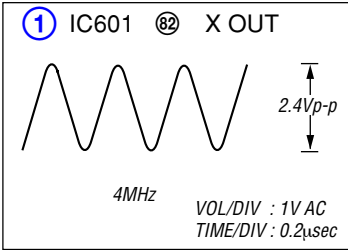
– MAIN BOARD –



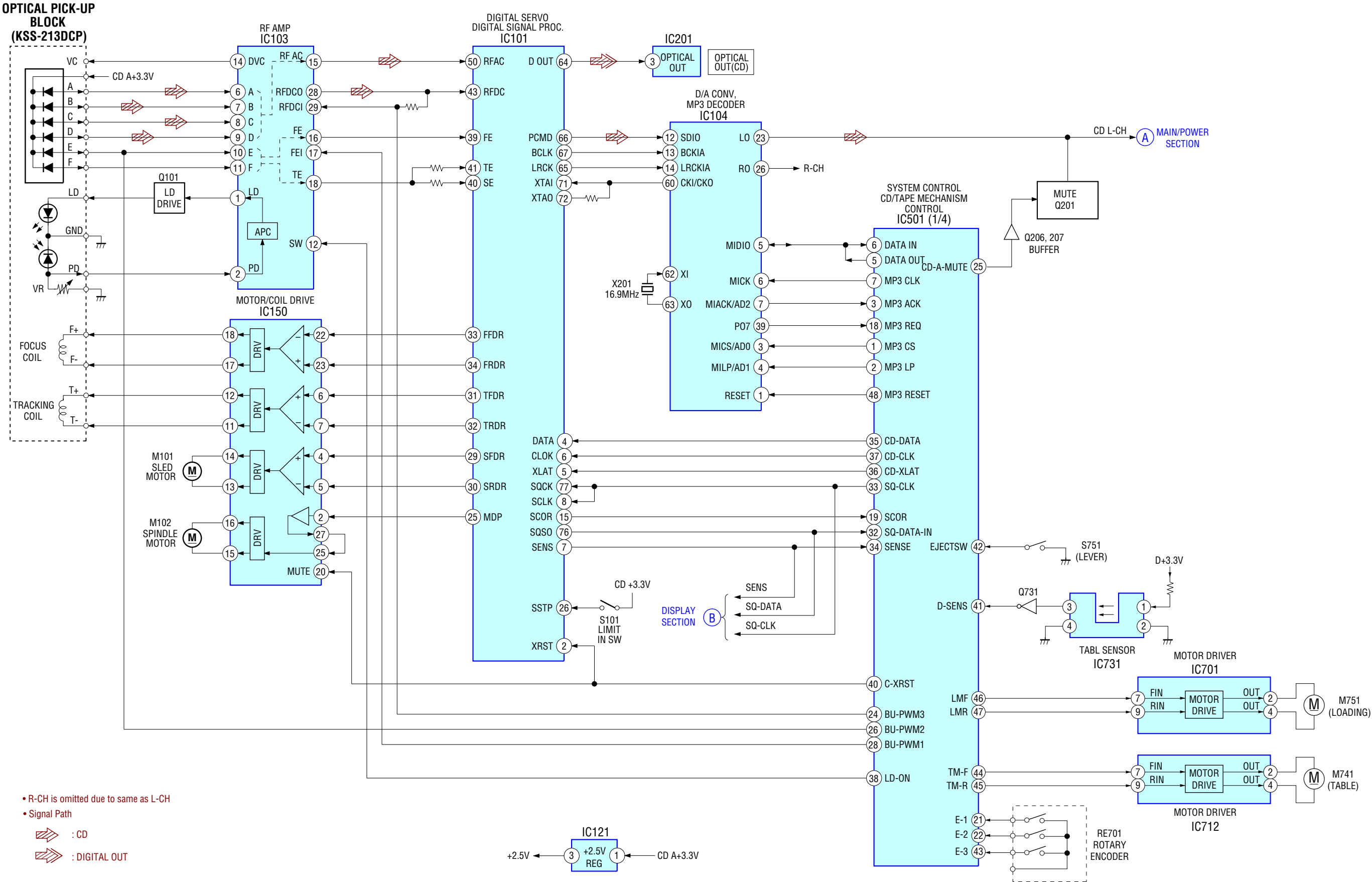
– CD BOARD –



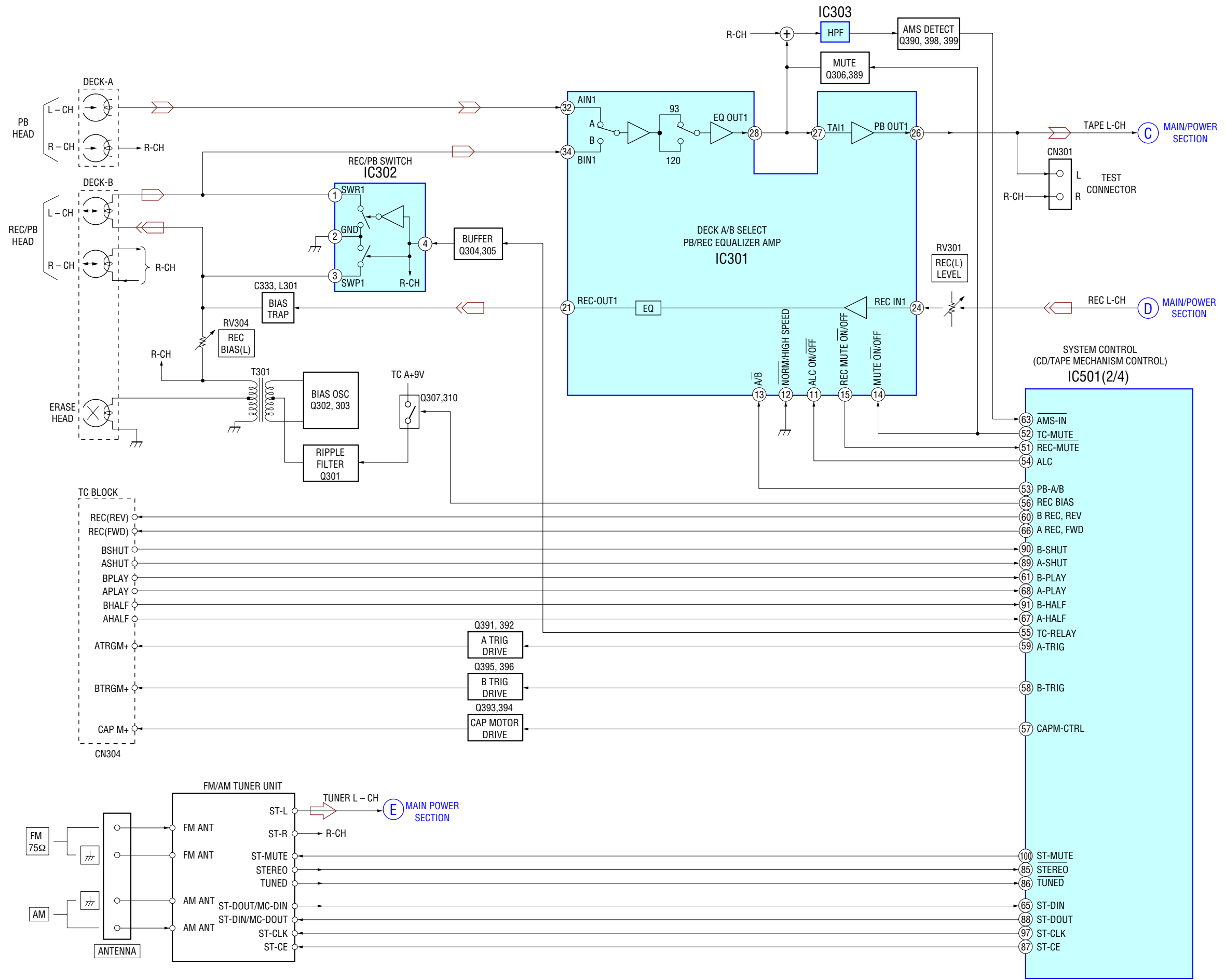
– DISPLAY BOARD –



7-2. BLOCK DIAGRAM – CD SERVO Section –

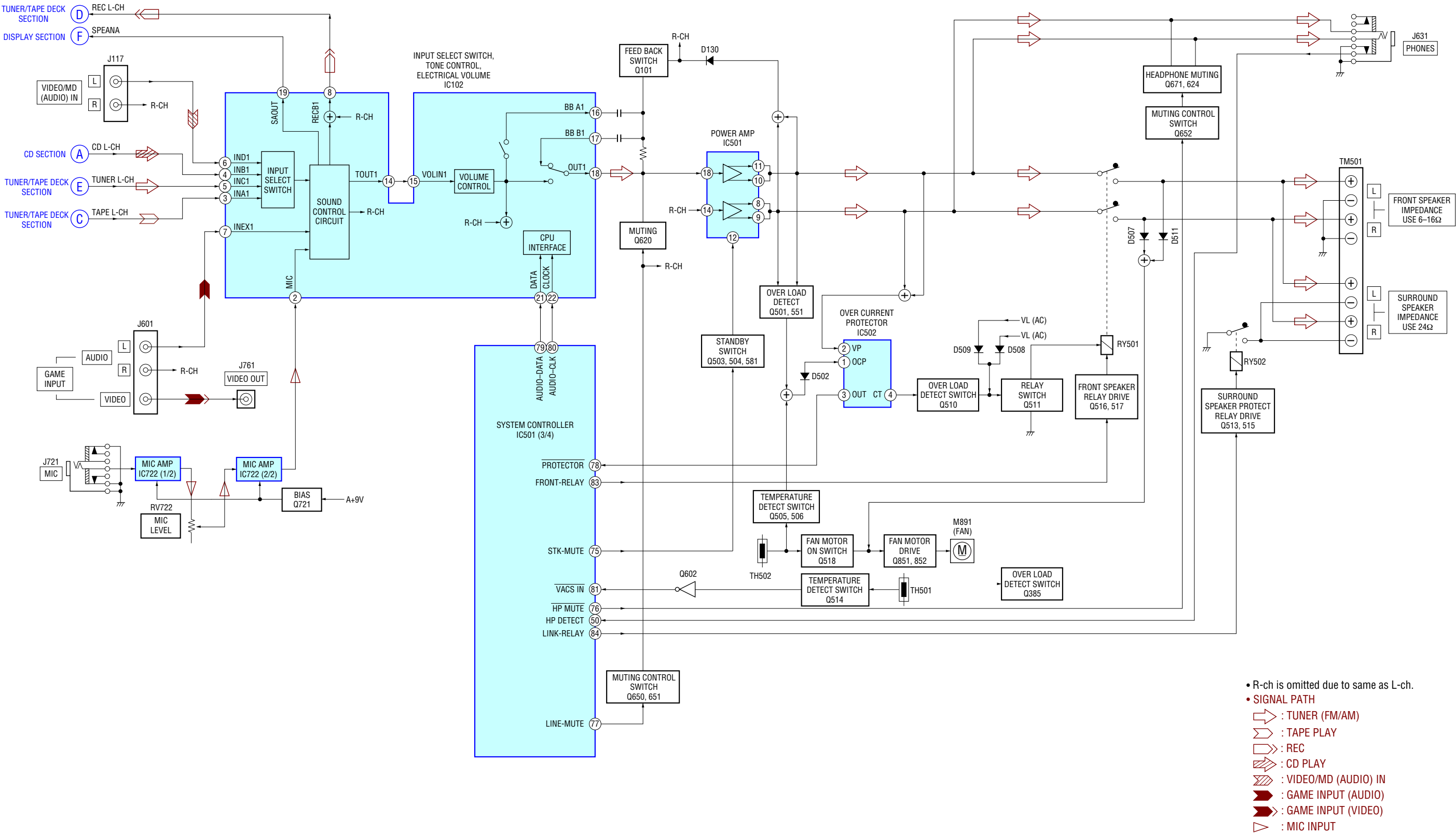


- TUNER/TAPE DECK Section -

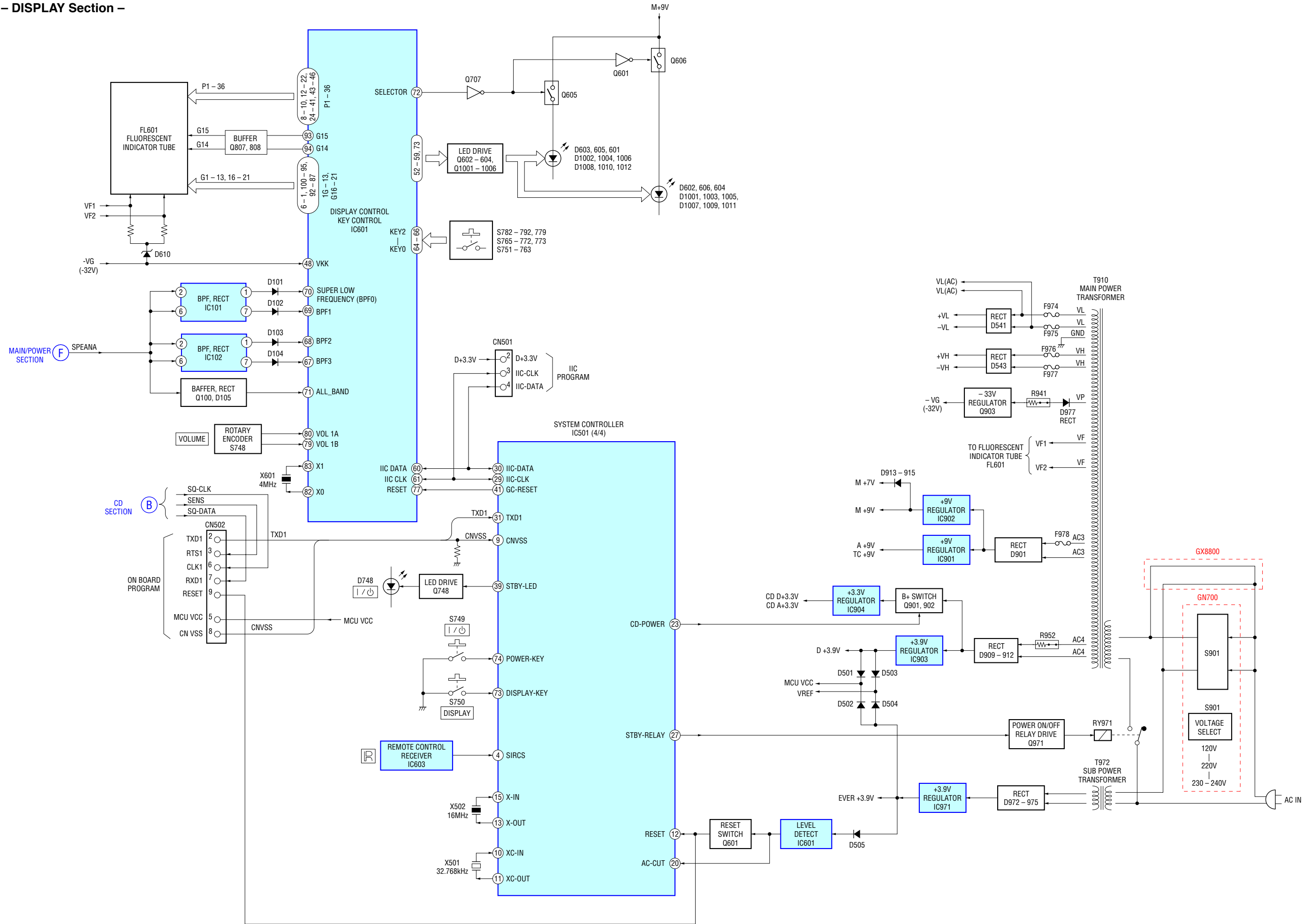


- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
 - ➡ : TUNER (FM/AM)
 - ➡ : PLAYBACK (DECK A)
 - ➡ : PLAYBACK (DECK B)
 - ➡ : RECORD

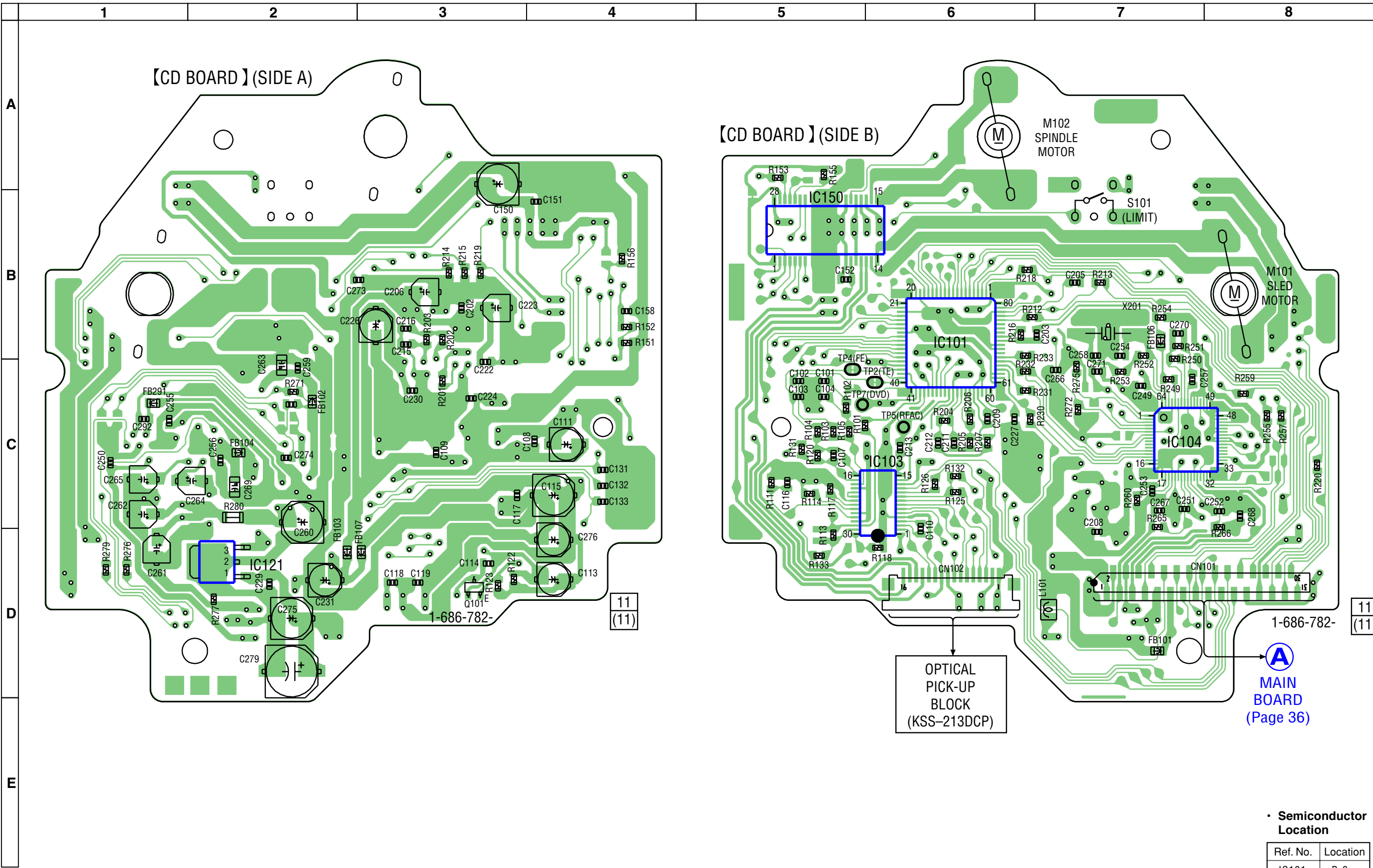
– MAIN/POWER Section –



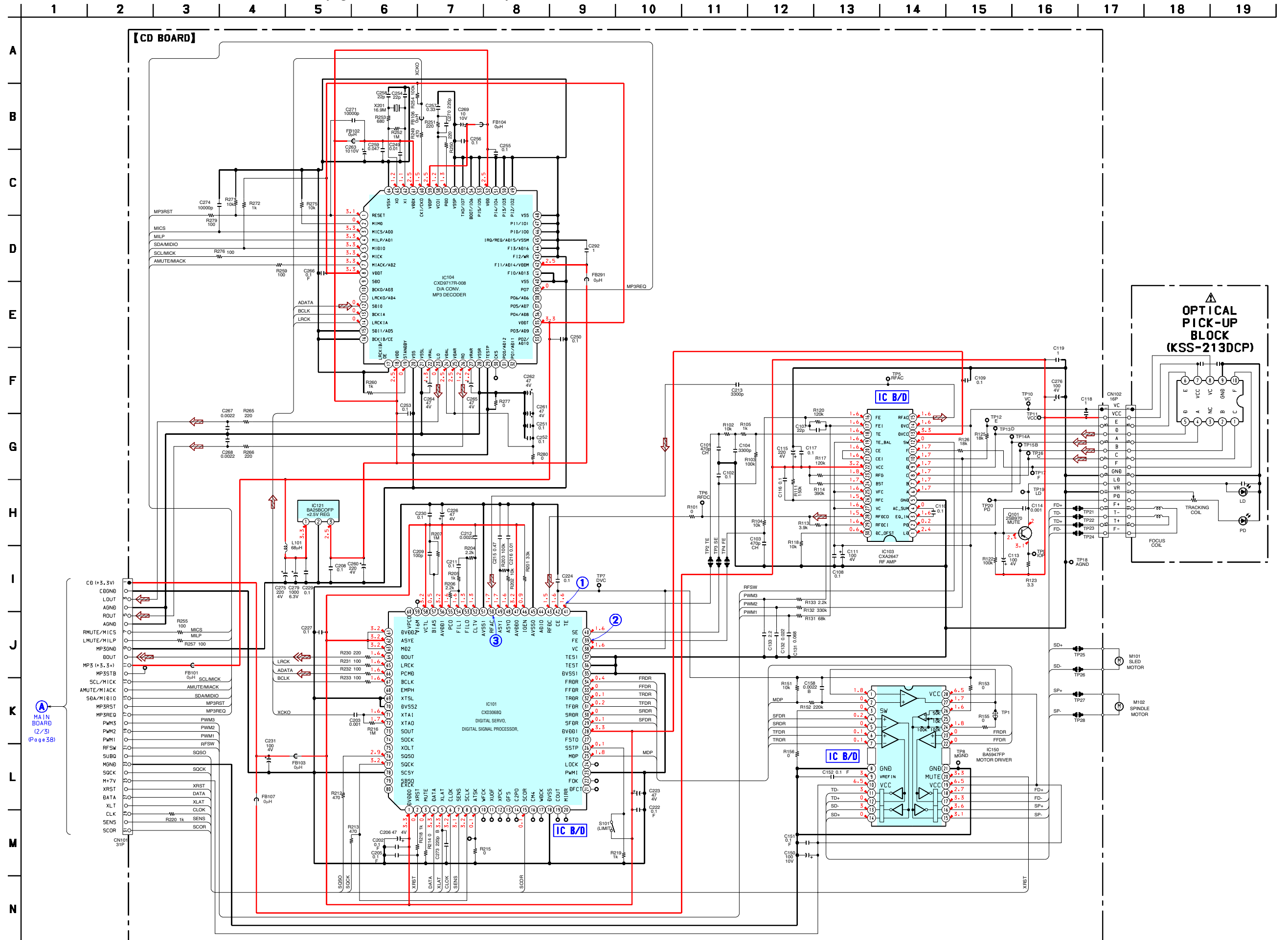
– DISPLAY Section –



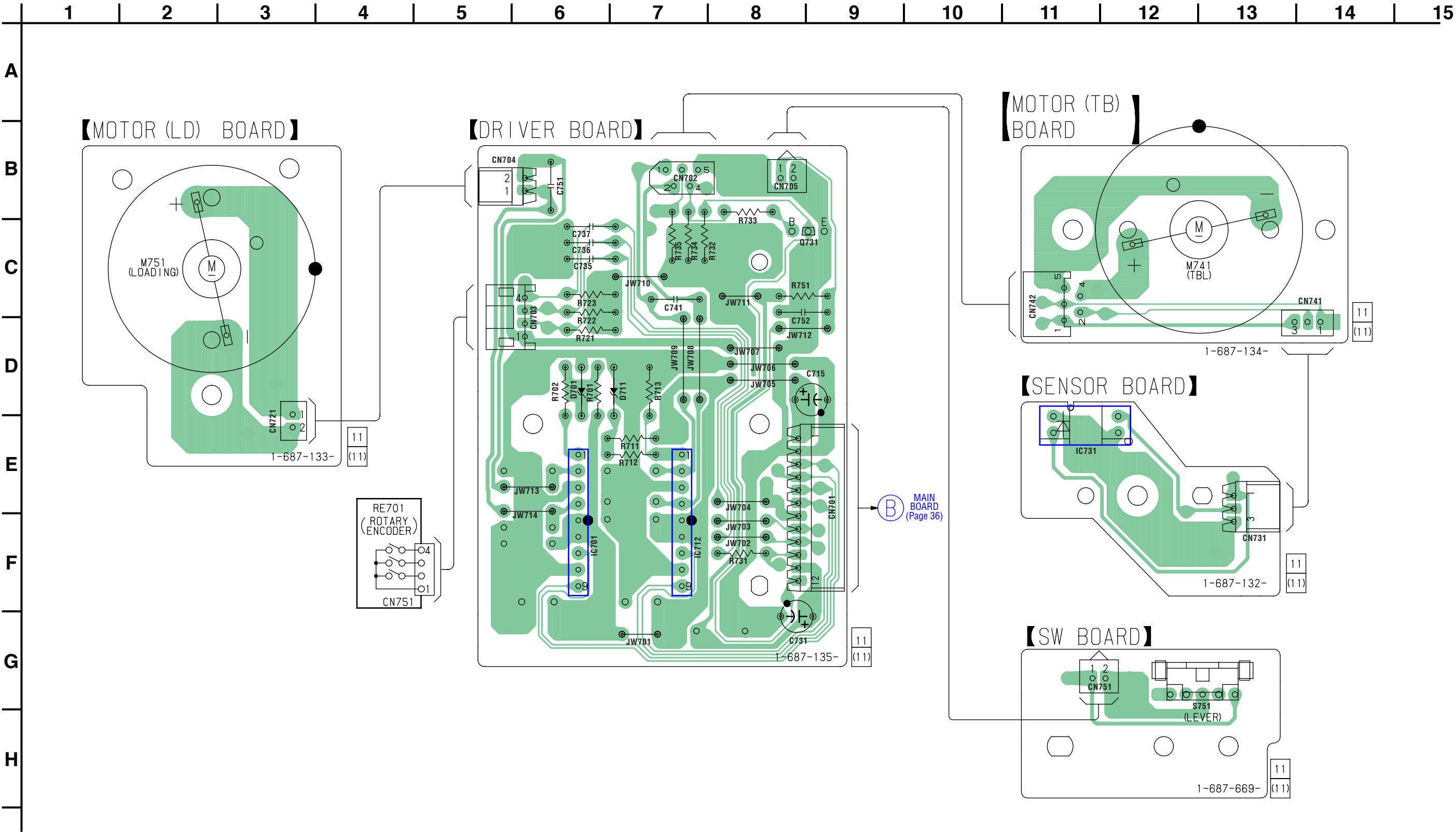
7-3. PRINTED WIRING BOARD – CD Board – • See page 26 for Circuit Boards Location.



7-4. SCHEMATIC DIAGRAM – CD Board – • See page 49 for Pin Function Description.



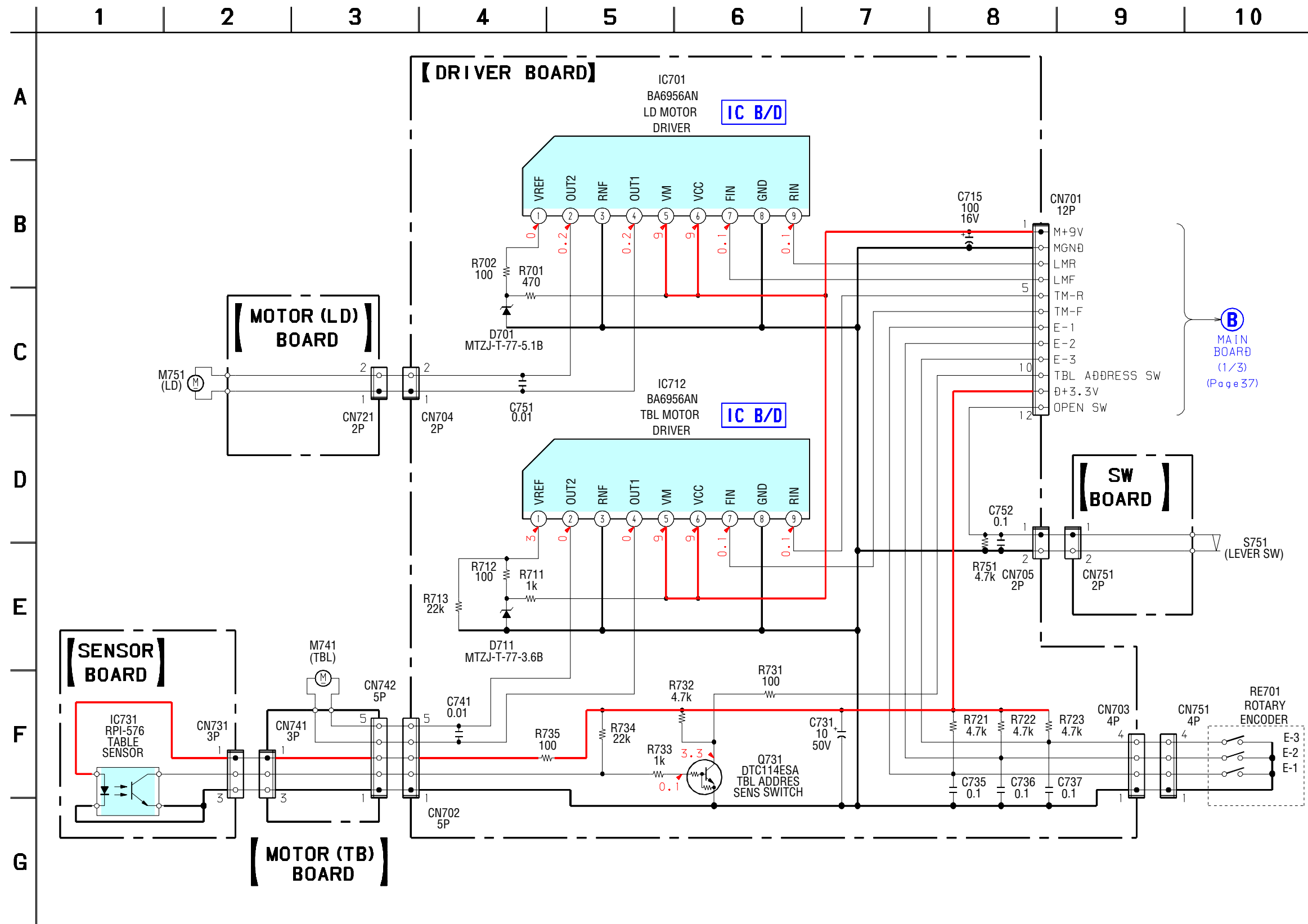
7-5. PRINTED WIRING BOARDS — CD MECHANISM Board — • Refer to page 26 for Circuit Boards Location.

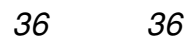


• Semiconductor Location

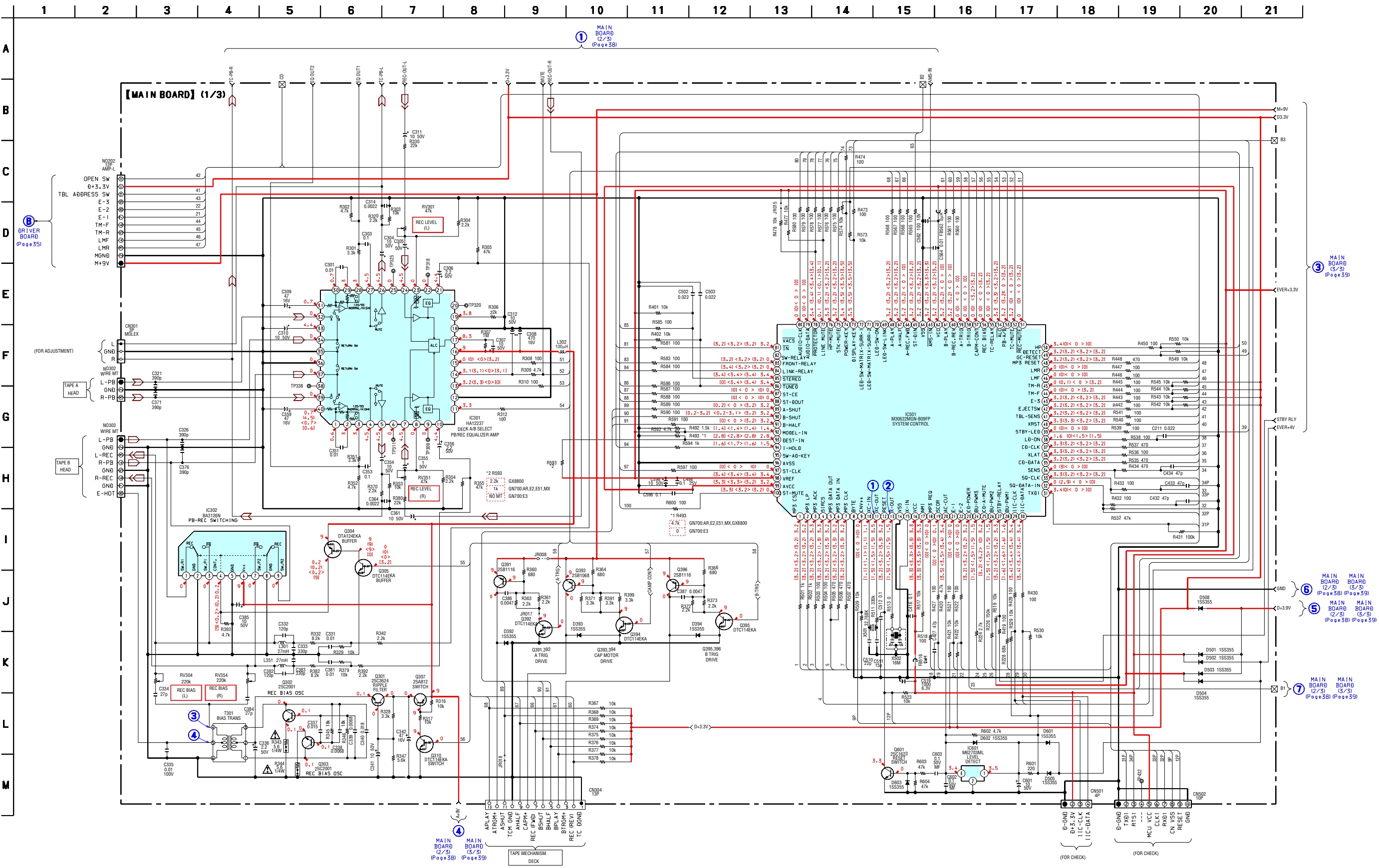
Ref. No.	Location
D701	D-6
D711	D-7
IC701	F-6
IC712	F-7
IC731	E-11
Q731	C-9

7-6. SCHEMATIC DIAGRAM – CD MECHANISM Board –

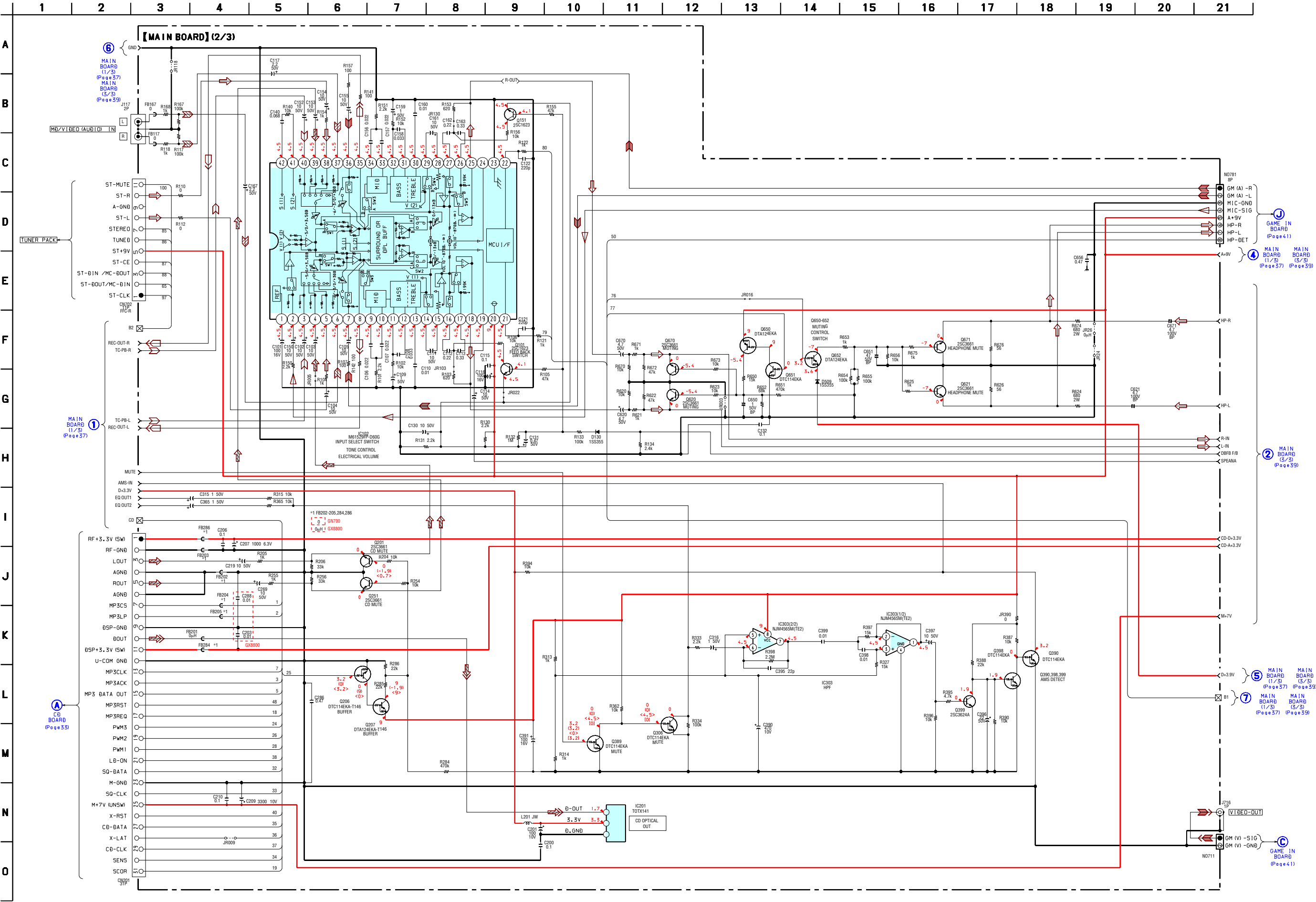




7-8. SCHEMATIC DIAGRAM – MAIN Board (1/3) – • See page 51 for Pin Function Description.

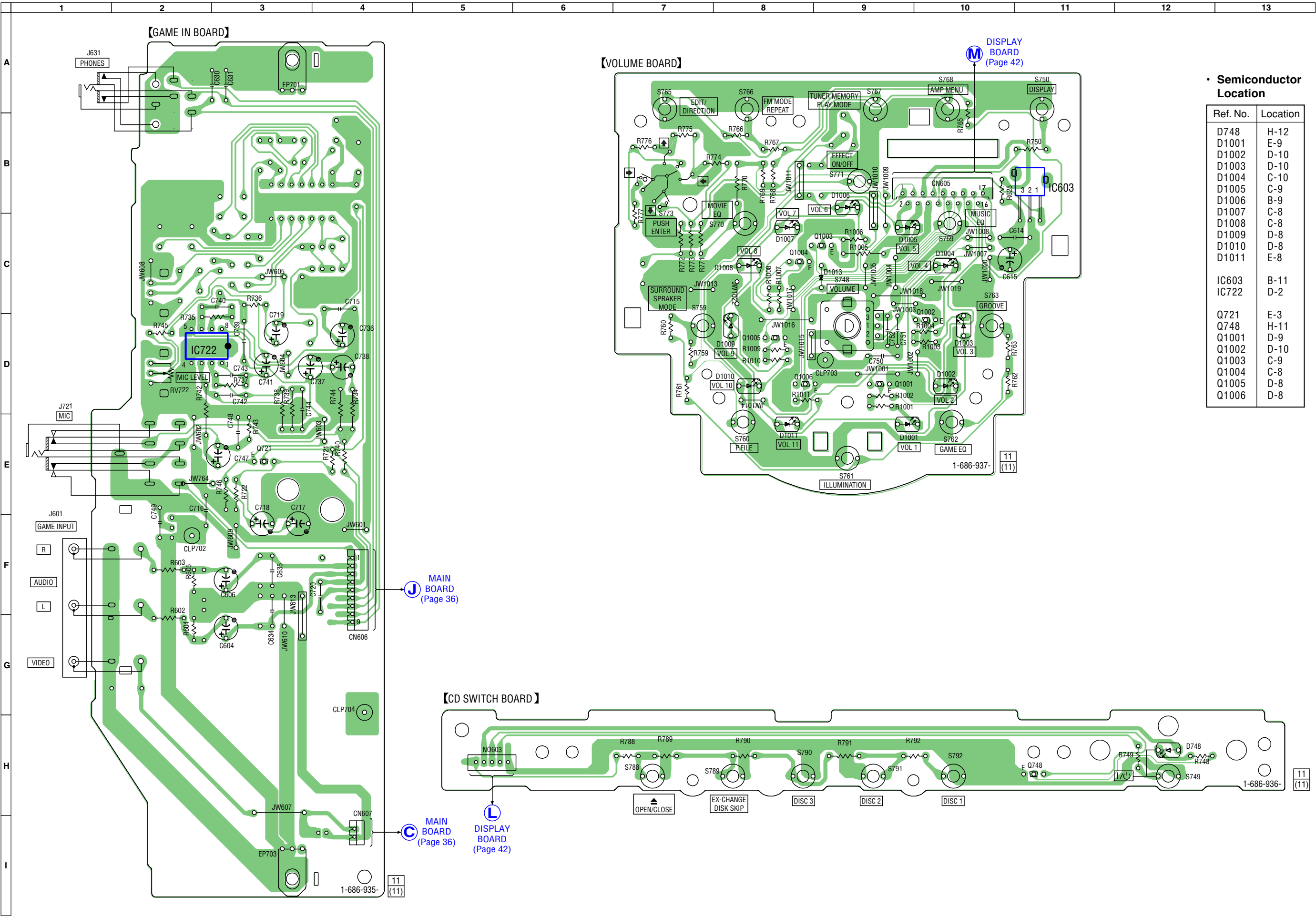


7-9. SCHEMATIC DIAGRAM – MAIN Board (2/3) –

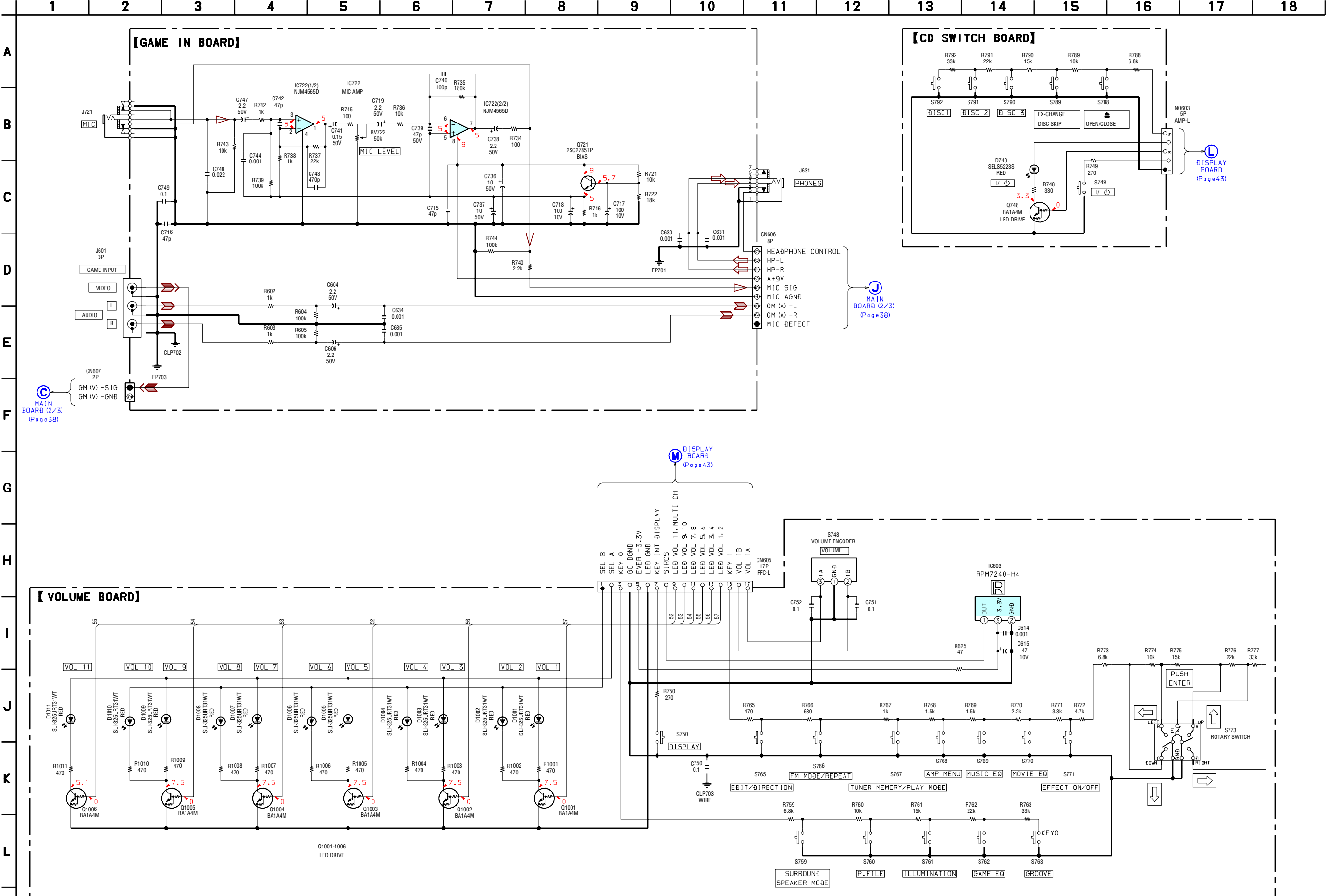




7-11. PRINTED WIRING BOARD – GAME IN, CD SWITCH Board – • See page 26 for Circuit Boards Location.

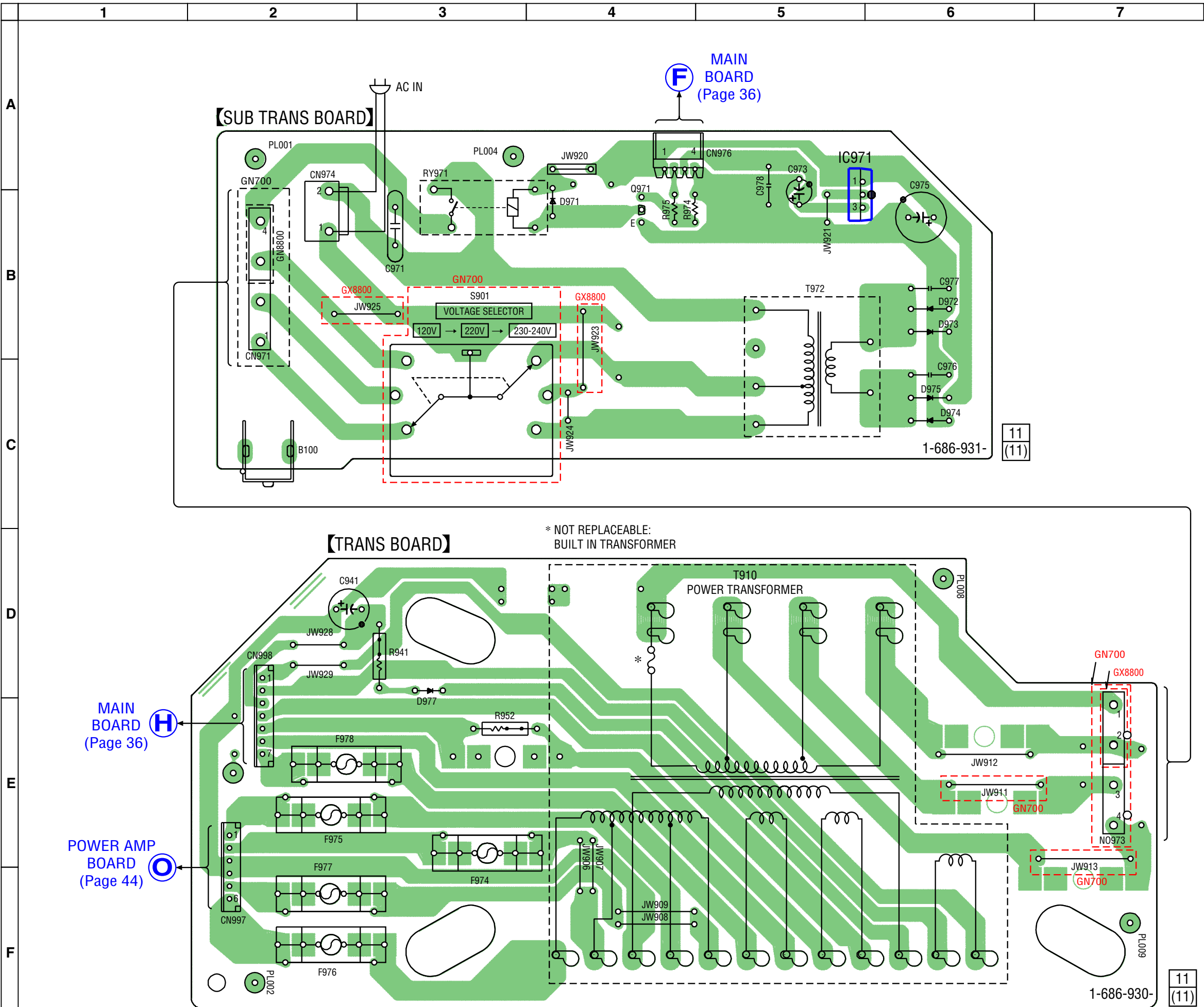


7-12. SCHEMATIC DIAGRAM – GAME IN, CD SWITCH Board –





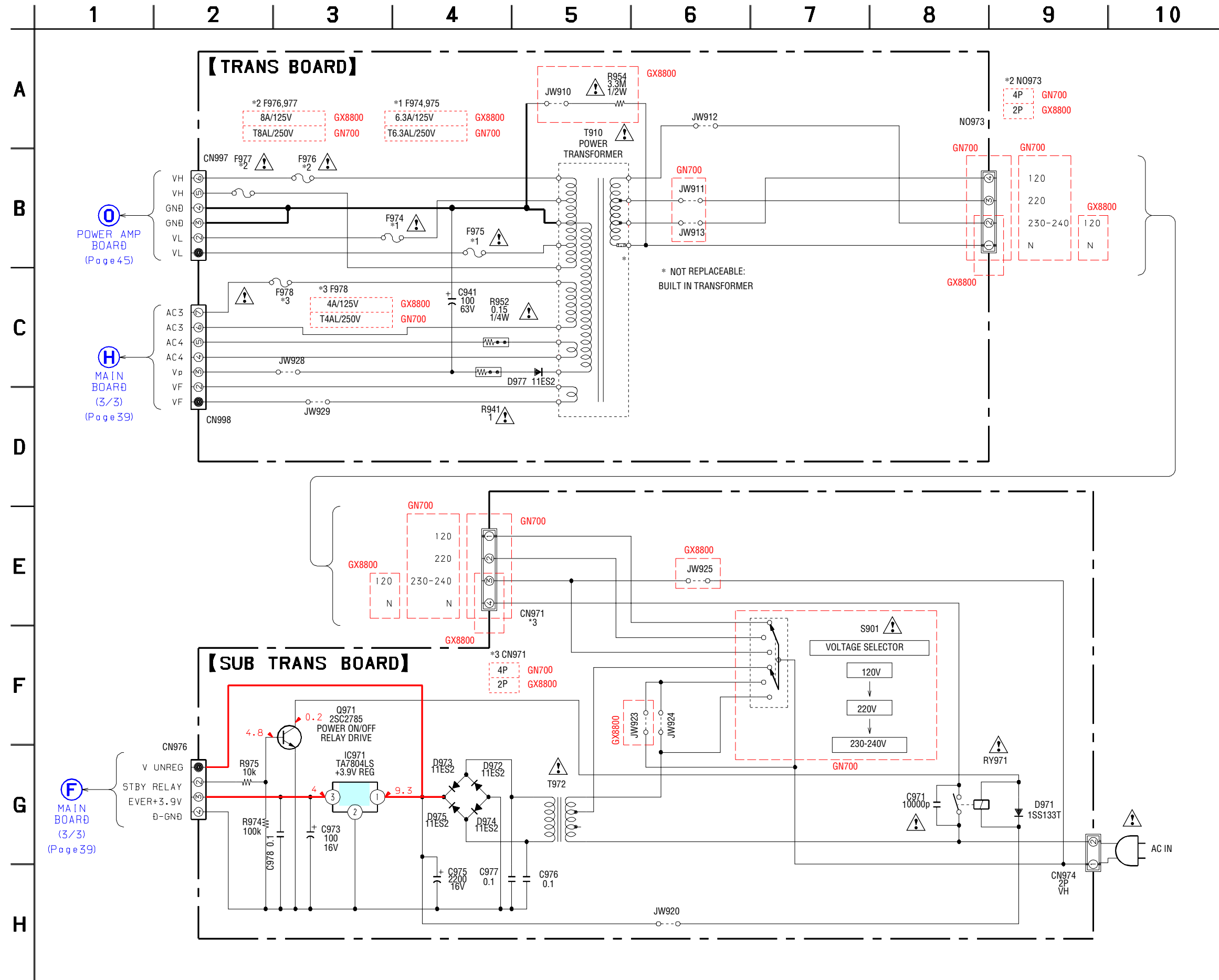
7-17. PRINTED WIRING BOARDS – TRANS Board – • See page 26 for Circuit Boards Location.



• Semiconductor Location

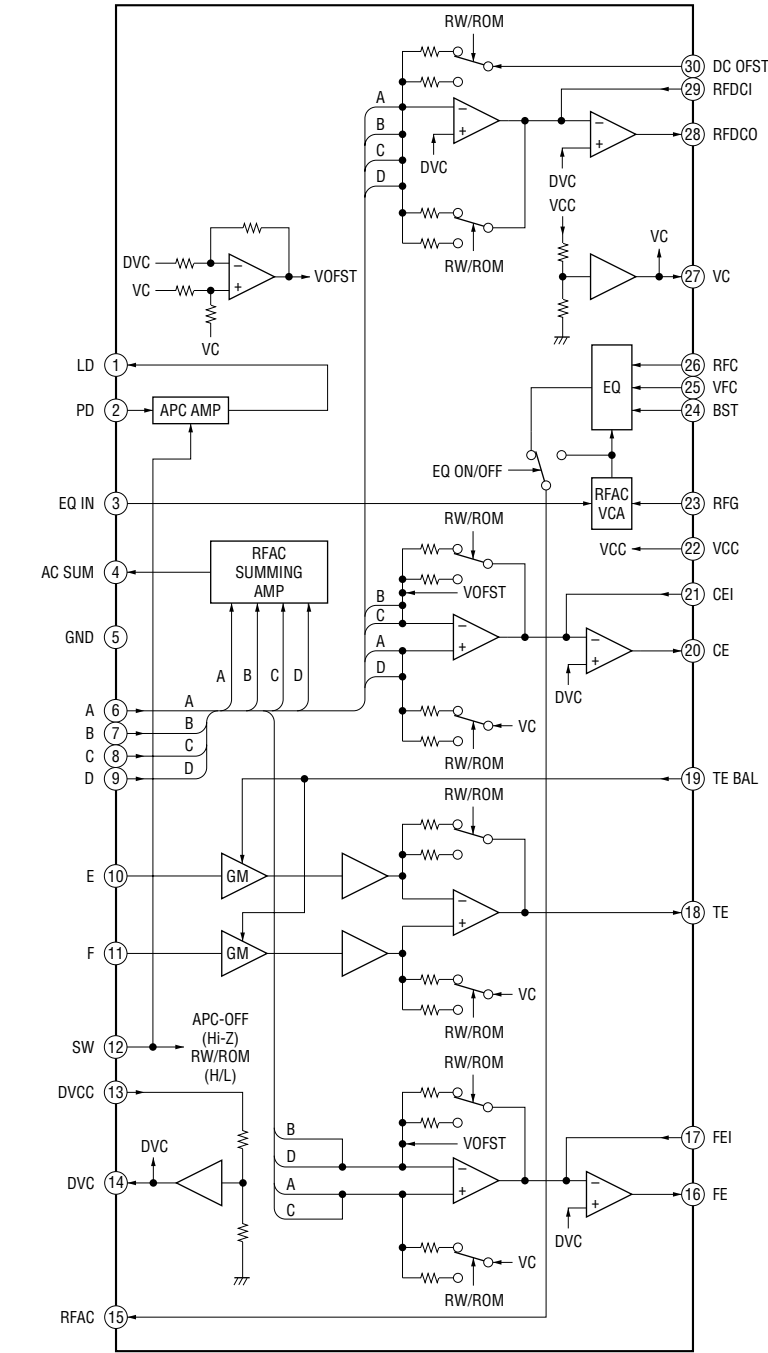
Ref. No.	Location
D971	B-4
D972	B-6
D973	B-6
D974	C-6
D975	C-6
D977	D-3
IC971	A-5
Q971	B-4

7-18. SCHEMATIC DIAGRAM – TRANS Board –

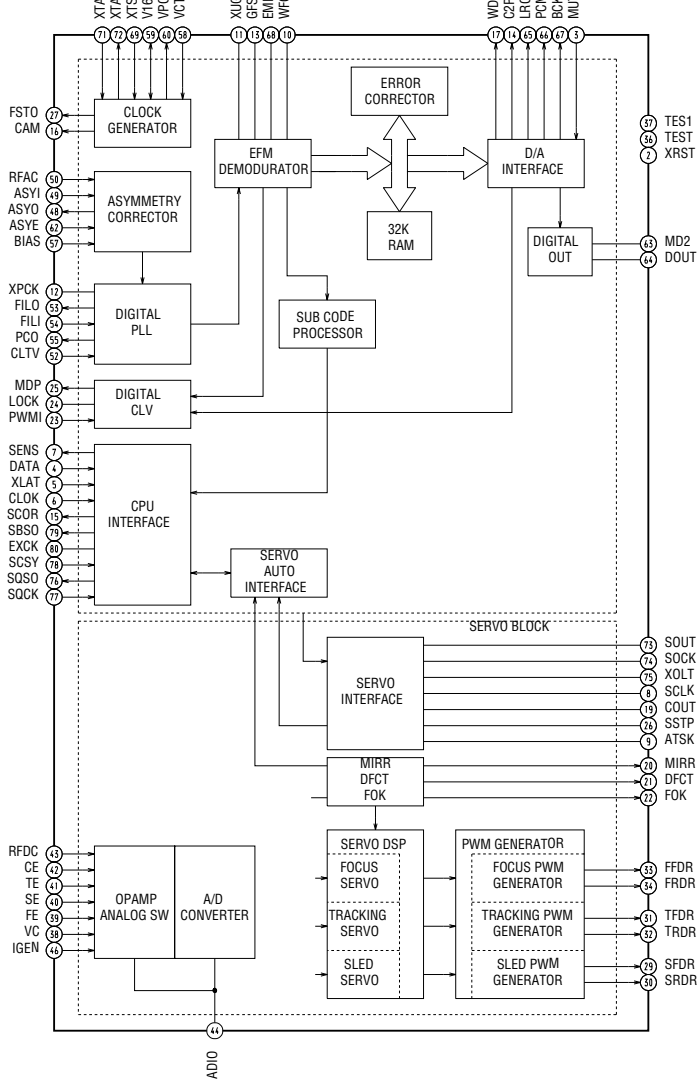


7-19. IC Block Diagrams

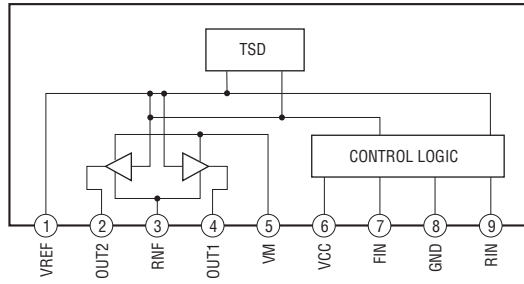
IC103 CXA2647N-T4 (CD BOARD)



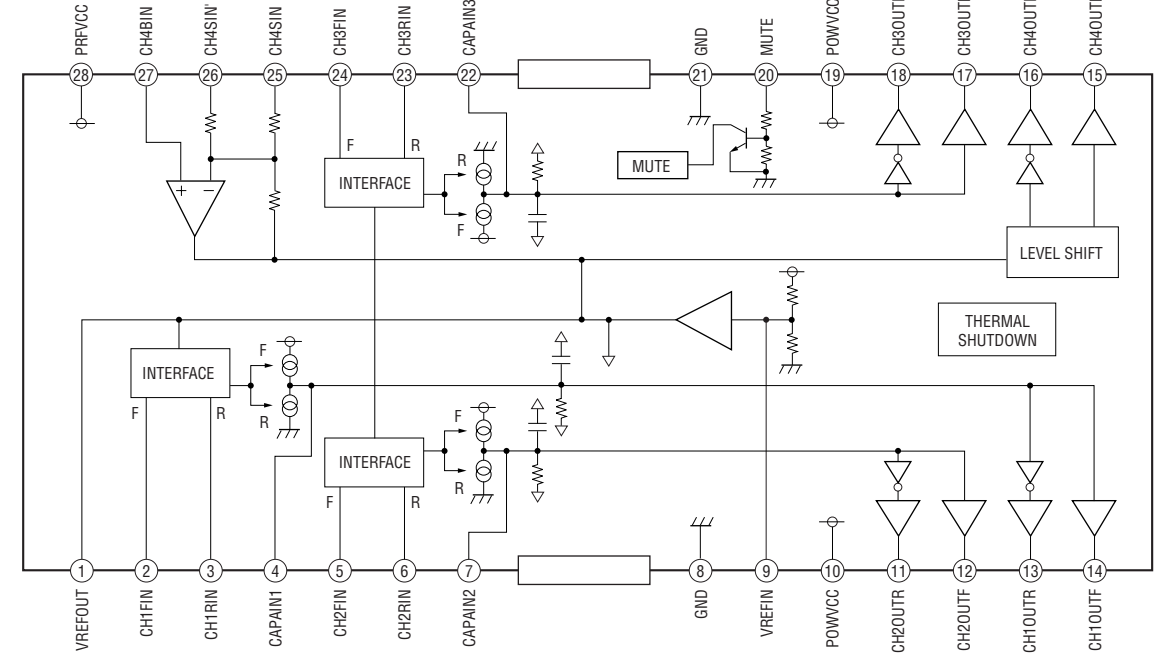
IC101 CXD3068Q (CD BOARD)



IC701 BA6956AN (DRIVER BOARD)
IC712 BA6956AN (DRIVER BOARD)



IC150 BA5974FM-E2 (CD BOARD)



7-20. IC Pin Function Description**• IC104 CXD9717R-008 D/A Converter, MP3 Decoder (CD Board)**

Pin No.	Pin Name	I/O	Description
1	RESET	I	Reset input terminal “L”: reset
2	MIMD	I	Microcomputer interface mode selection input “H”: I2C, “L”: TSB (fixed at “L”)
3	MICS/AD0	I	Microcomputer interface chip select signal input
4	MILP/AD1	I	Microcomputer interface latch pulse input
5	MIDIO	I/O	Serial data input/output
6	MICK	I	Serial clock input
7	MIACK/AD2	O	Microcomputer interface acknowledge signal output
8	VDDT	–	Power supply (3.3V) for digital circuit
9	SDO	O	Data output (open)
10	BCKO/AD3	O	Bit output (open)
11	LRCKO/AD4	O	LR clock output (open)
12	SDI0	I	Data input 0
13	BCKIA	I	Bit clock input A
14	LRCKIA	I	LR clock input A
15	SDI1/AD5	I	Data input 1 (fixed at “L”)
16	BCKIB/CE	I	Bit clock input B (fixed at “L”)
17	LRCKIB/OE	I	LR clock input B (fixed at “L”)
18	VDD	–	Power supply (2.5V) for digital circuit
19	STANDBY	I	Standby mode control signal input “H”: STB, “L”: normal (fixed at “H”)
20	VSS	–	Ground for digital circuit
21	VSSL	–	Ground for DAC Lch
22	VRAL	–	Reference voltage terminal for DAC Lch
23	LO	O	DAC Lch signal output
24	VDAL	–	Power supply (2.5V) for DAC Lch
25	VDAR	–	Power supply (2.5V) for DAC Rch
26	RO	O	DAC Rch signal output
27	VRAR	–	Reference voltage terminal for DAC Rch
28	VSSR	–	Ground for DAC Rch
29	TESTP	I	Terminal for test “H”: test mode, “L”: normal (fixed at “L”)
30	CSK	O	SPDIF signal output (open)
31 to 34	PO0/AD12 to PO3/AD09	O	General purpose output (open)
35	VDDT	–	Power supply (3.3V) for digital circuit
36	PO4/AD8	O	General purpose output (open)
37	PO5/AD7	O	General purpose output (open)
38	PO6/AD6	O	General purpose output (open)
39	PO7	O	Interrupt request signal output to the system control
40	VSS	–	Ground for digital circuit
41	FI0/AD13	I	External interrupt signal input (fixed at “L”)
42	FI1/AD14/VDDM	–	Power supply (2.5V) for the internal 1Mbit SRAM
43	FI2/WR	I	Flag signal input 0 (fixed at “L”)
44	FI3/AD16	I	Flag signal input 1 (fixed at “L”)
45	VSSM	–	Ground for the internal 1Mbit SRAM
46, 47	PI0, PI1	I	General purpose input (fixed at “L”)
48	VSS	–	Ground for digital circuit
49, 50	PI2/IO2, PI3/IO3	I	General purpose input (fixed at “L”)
51	PI4/IO4	I	General purpose input (fixed at “L”)
52	VDD	–	Power supply (2.5V) for digital circuit
53	PI5/IO5	I	General purpose input/SUBQ interface data input (fixed at “L”)

Pin No.	Pin Name	I/O	Description
54	BOOT/IO6	I	Terminal for test/SUBQ interface frame sync input (fixed at “L”)
55	TXO/IO7	I	Flag signal input 2/SUBQ interface block sync input (fixed at “L”)
56	VSSP	–	Ground for VCO circuit
57	PDO	O	PLL phase error detection signal output
58	VCOI	I	VCO control voltage input
59	VDDP	–	Power supply (2.5V) for VCO circuit
60	CKO	O	External clock output
61	VDDX	–	Power supply (2.5V) for oscillation circuit
62	XI	I	Resonator terminal (input)
63	XO	O	Resonator terminal (output)
64	VSSX	–	Ground for oscillation circuit

• IC501 M30622MGN-B14FP SYSTEM CONTOL (MAIN Board)

Pin No.	Pin Name	I/O	Description
1	MP3 CS	O	MP3 chip select signal output
2	MP3 LP	O	MP3 latch pules output
3	MP3 ACK	I	MP3 acknowledge signal input
4	SIRCS	I	SIRCS input
5	MP3 DATA OUT	O	Serial data output
6	MP3 DATA IN	I	Serial data input
7	MP3 CLK	O	Serial clock output
8	BYTE	I	Not used (connected to ground)
9	CNVSS	—	Not used (Connected to ground with resistor)
10	XC-IN	I	Sub clock input
11	XC-OUT	O	Sub clock output
12	RESET	I	System reset input
13	X-OUT	O	Main system clock output (16MHz)
14	VSS	—	Ground
15	X-IN	I	Main system clock input (16MHz)
16	VCC	—	Power supply (+5V)
17	NMI	I	Not used (Pull up with resistor)
18	MP3 REQ	I	Interrupt request signal input
19	SCOR	I	Subcode sync (S0+S1) detection signal input
20	AC-CUT	I	AC cut check signal input
21	E-1	I	Disc tray status detection signal input
22	E-2	I	Disc tray status detection signal input
23	CD-POWER	O	CD power on/off signal output
24	BU-PWM3	O	BU PWM 3 (for CD-RW) signal output
25	CD-A-MUTE	O	CD mute signal output
26	BU-PWM2	O	BU PWM 2 (for CD-RW) signal output
27	STBY-RELEY	O	Reley drive signal output
28	BU-PWM1	O	BU PWM 1 (for CD-RW) signal output
29	IIC-CLK	I	IIC serial data clock input
30	IIC-DATA	I	IIC serial data input
31	TXD1	—	Not used
32	SQ-DATA	I	Subcode Q data input
33	SQ-CLK	O	Subcode Q data reading clock signal output
34	SENS	I	SENS signal input from CXD3068Q
35	CD-DATA	O	CD data output
36	XLAT	O	CD latch signal output
37	CD-CLK	O	CD data clock output
38	LD-ON	O	Laser diode control signal output
39	STBY-LED	O	Standby LED drive signal output
40	XRST	O	CD reset signal output
41	TBL-SENS	I	Table sensor signal input
42	EJECTSW	I	Eject switch signal input
43	E-3	I	Disc tray status detection signal input
44	TM-F	O	Table motor control signal output
45	TM-R	O	Table motor control signal output
46	LMF	O	Loading motor control signal output
47	LMR	O	Loading motor control signal output
48	MP3 RESET	O	MP3 reset signal output
49	GC-RESET	O	GC reset signal output
50	HP DETECT	I	Headphone detect input
51	REC-MUTE	O	REC mute signal output
52	TC-MUTE	O	TC line mute signal output
53	PB-A/B	O	TC A/B select signal output

Pin No.	Pin Name	I/O	Discription
54	ALC	O	ALC signal output
55	TC-RELAY	O	REC/PB selection signal output
56	REC BIAS	O	Bias on/off signal output
57	CAPM-CONT	O	Capstan motor REV/FWD/STOP control signal output
58	B-TRIG	O	TCM-B Trigger output
59	A-TRIG	O	TCM-A trigger output
60	B-REC, REV	O	Record tab switch for SIDE B signal output
61	B-PLAY	I	TCM-B play switch input
62	VCC	—	Power supply (+3.3V)
63	AMS-IN	I	AMS signal input
64	VSS	—	Ground
65	ST-DIN	I	Tuner data input
66	A-REC, FWD	O	Record tab switch for SIDE A signal output
67	A-HALF	I	A deck half detection signal input
68	A-PLAY	I	TCM-A play switch input
69	LED-SW-LINK	O	Subwoofer LED drive signal output (open)
70	LED-SW-ON	O	Subwoofer LED drive signal output (open)
71	LED-MATRIX-SURR-2	O	Subwoofer LED drive signal output (open)
72	LED-MATRIX-SURR-1	O	Subwoofer LED drive signal output (open)
73	KEY-DISPLAY	I	DISPLAY key signal input
74	POWER-KEY	I	Power key signal input
75	STK-MUTE	O	Mute signal output to power IC
76	HP-MUTE	O	Headphone mute signal output
77	LINE-MUTE	O	TA LINE mute signal output
78	PROTECT	I	Speaker protection signal input
79	AUDIO-DATA	O	Serial data output to Audio EQIC
80	AUDIO-CLK	O	Serial data clock output to Audio EQIC
81	VACS IN	I	VACS signal input
82	SW-RELAY	O	Subwoofer relay control signal output (open)
83	FRONT-RELAY	O	Front speaker relay driver signal output
84	LINK-RELAY	O	Surround speaker relay driver signal output
85	STEREO	I	Stereo signal input
86	TUNED	I	Tuned signal input
87	ST-CE	O	Tuner chip enable signal output
88	ST-DOUT	O	Tuner data output
89	A-SHUT	I	TCM-A reel pulse input
90	B-SHUT	I	TCM-B reel pulse input
91	B-HALF	I	B deck half detection input
92	MODEL-IN	I	Model input
93	DEST-IN	I	Destination input
94	I-HOLD	I	Over-voltage protection detection input termnal
95	SW-AD-KEY	I	Subwoofer key signal input (open)
96	AVSS	—	Ground
97	ST-CLK	O	Tuner clock signal output
98	VREF	I	Reference voltage input
99	AVCC	—	Power supply (+3.3V)
100	ST-MUTE	O	Tuner mute signal output

• IC601 MB90M407APF-G-124-BND DISPLAY CONTROL (DISPLAY Board)

Pin No.	Pin Name	I/O	Description
1 to 7	G7 to G1	O	FLD grid output
8 to 10	P1 to P3	O	FLD segment output
11	VSS-IO	—	Ground
12 to 22	P4 to P14	O	FLD segment output
23	VDD-FIP	—	Power supply (+3.3V)
24 to 41	P15 to P32	O	FLD segment output
42	VSS-IO	—	Ground
43 to 46	P32 to P36	O	FLD segment output
47	NO USED	O	Not used
48	VKK	—	Power supply (-35V)
49	MD0	I	Not used (pull up with resistor)
50	MD1/VDD-VFT	I	Not used (pull up with resistor)
51	MD2	I	Not used (pull down with resistor)
52	VOLUME5,6 LED	O	LED drive signal output
53	VOLUME7,8 LED	O	LED drive signal output
54	VOLUME9,10 LED	O	LED drive signal output
55	VOLUME11,MULTI CH LED	O	LED drive signal output
56	VOLUME3,4 LED	O	LED drive signal output
57	VOLUME1,2 LED	O	LED drive signal output
58	TAPE A/B,TUNER LED	O	LED drive signal output
59	GAME,MD/VIDEO LED	O	LED drive signal output
60	I2C-DATA	O	IIC serial data output
61	I2C-CLOCK	O	IIC clock signal output
62	AVCC	—	Power supply (+3.3V)
63	AVSS	—	Ground
64 to 66	KEY0 to KEY2	I	Key input (A/D port)
67 to 70	BPF3 to BPF0	I	Spectrum analyzer BPF signal input
71	ALL BAND	I	L+R signal input
72	SELECTOR	O	LED group select signal output
73	CD/DVD, REC/PAUSE LED	O	LED drive signal output
74 to 76	NO USE	O	Not used
77	RESET	I	Reset input
78	SOFT TEST	O	Not used (open)
79	VOL 1B	I	Volume encoder signal B input
80	VOL 1A	I	Volume encoder signal A input
81	VSS-CPU	—	Ground
82	XOUT	O	Crystal oscillator output (4MHz)
83	XIN	I	Crystal oscillator input (4MHz)
84	VCC-CPU	—	Power supply (+3.3V)
85, 86	NO USE	—	Not used
87 to 100	G21 to G8	O	FLD grid output

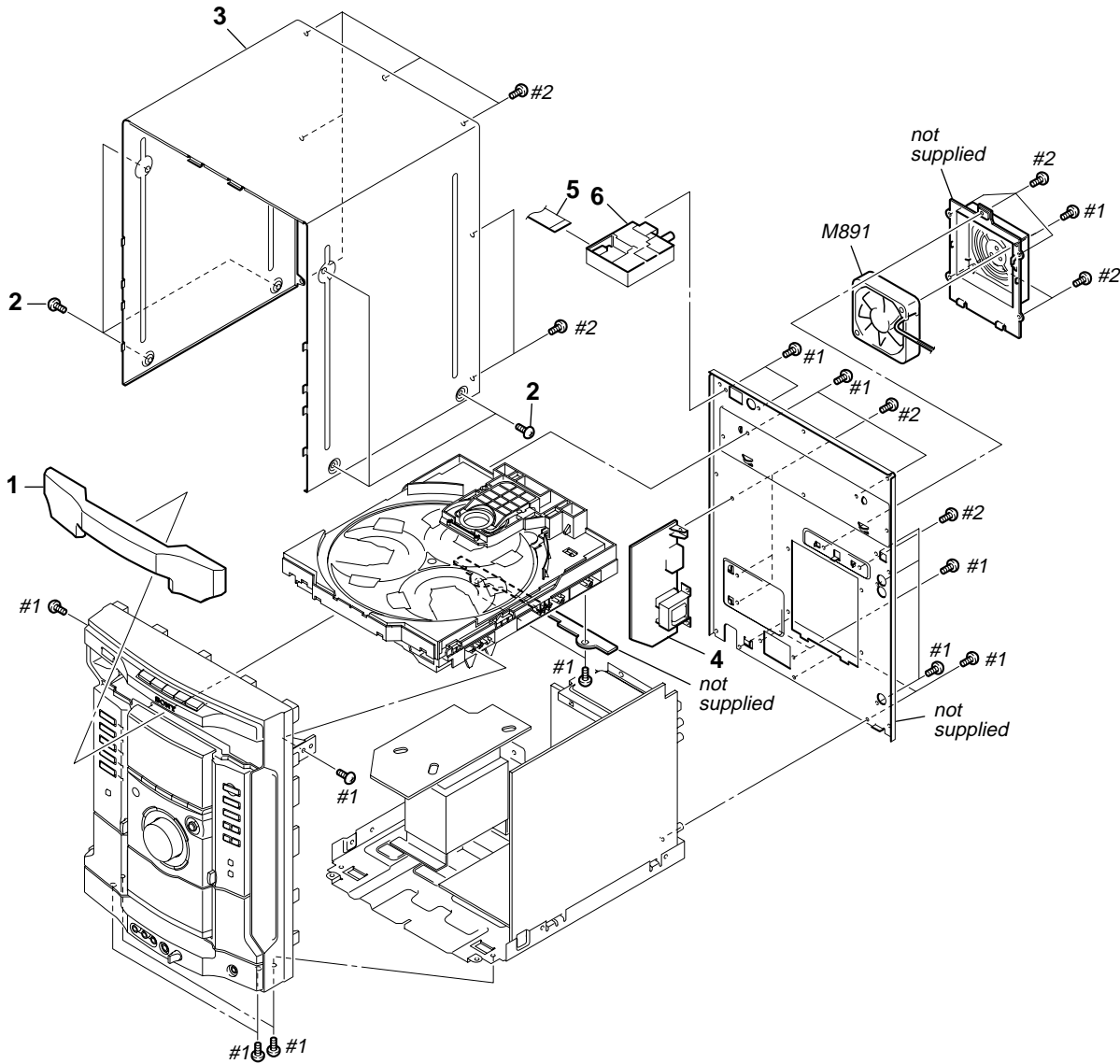
SECTION 8
EXPLODED VIEWS

- NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
 - Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 - Accessories are given in the last of the electrical parts list.

- Abbreviation
AR : Argentine model
E2 : 120 V AC Area in E model
E3 : 240 V AC Area in E model
E51 : Chiri and Peru model
MX : Mexican model

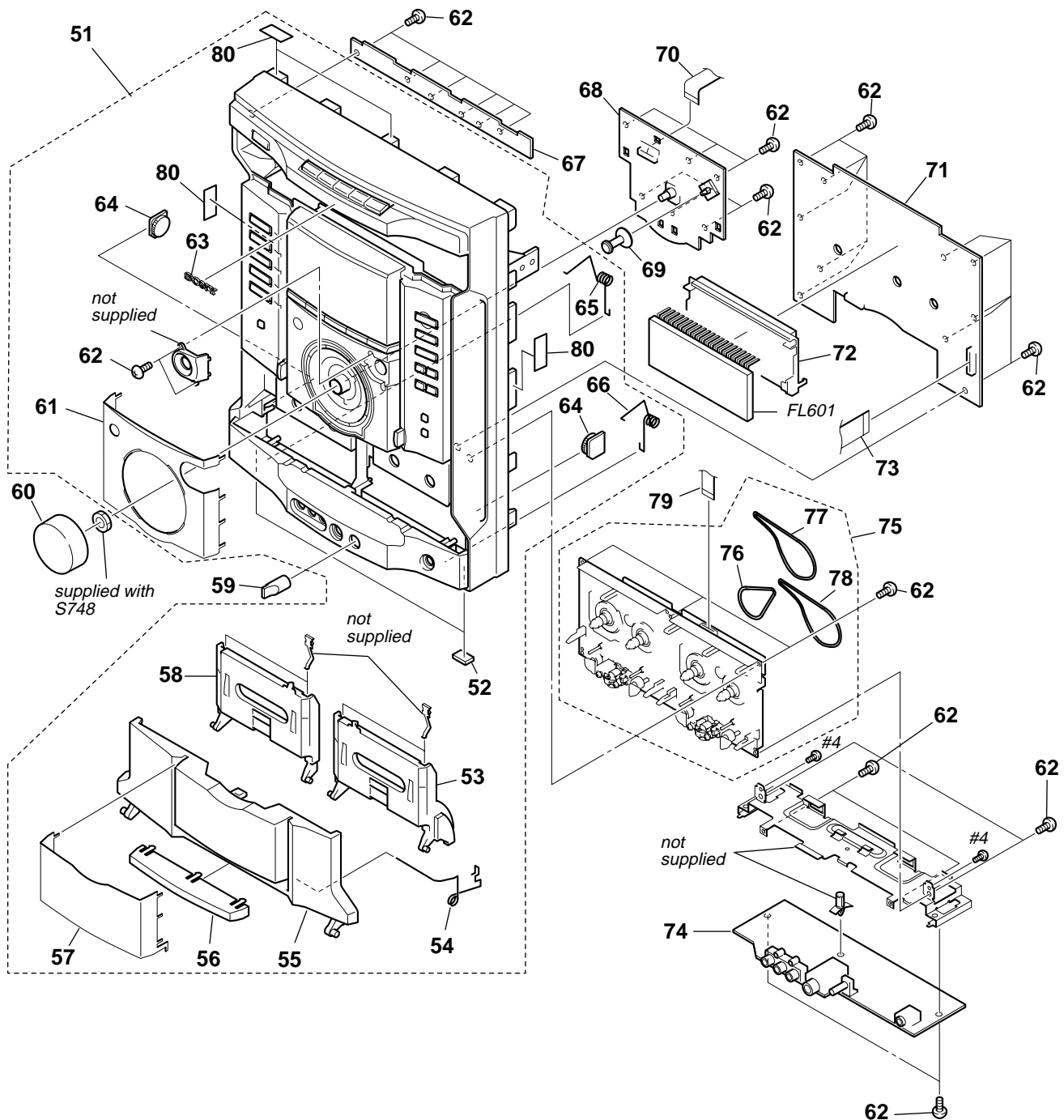
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

8-1. CASE, REAR PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-244-102-11	LOADING (PANEL) (GN700)		5	1-920-838-32	WIRE (FLAT TYPE) (11 CORE)	
1	4-244-102-31	LOADING (PANEL) (GX8800)		6	1-693-603-11	TUNER (FM/AM) (GN700)	
2	3-363-099-41	SCREW (CASE 3 TP2)		6	1-693-623-11	TUNER (FM/AM) (GX8800)	
3	4-231-828-31	CASE		M891	1-763-072-11	FAN, DC	
4	A-4731-346-A	SUB TRANS BOARD, COMPLETE (GN700)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
4	A-4733-069-A	SUB TRANS BOARD, COMPLETE (GX8800)		#2	7-685-871-09	SCREW +BVTT 3X6 (S)	

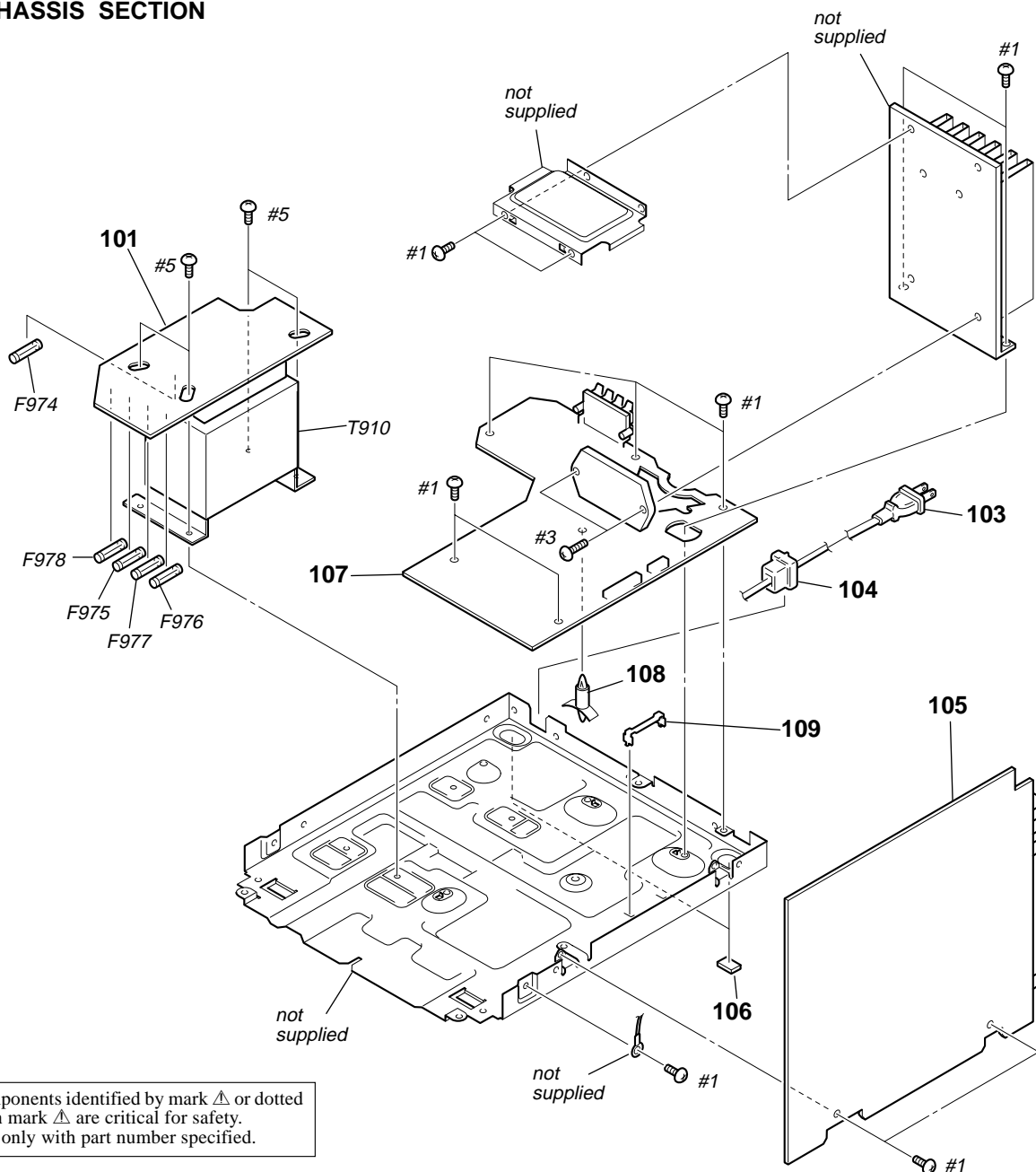
8-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-4955-229-1	FRONT PANEL ASSY (GN700)		67	1-686-936-11	CD SWITCH BOARD	
51	X-4955-554-1	FRONT PANEL ASSY (GX8800)		68	A-4731-329-A	VOLUME BOARD, COMPLETE	
52	4-225-252-01	CUSHION (FOOT)		69	4-244-096-01	KNOB (CURSOR)	
53	4-244-075-01	HOLDER (TC-R)					
54	4-244-093-01	SPRING (LID)		70	1-773-040-11	WIRE (FLAT TYPE) (17 CORE)	
				71	A-4731-330-A	DISPLAY BOARD, COMPLETED (GN700)	
55	4-244-072-01	LID (TC)		71	A-4733-055-A	DISPLAY BOARD, COMPLETE (GX8800)	
56	4-244-073-01	WINDOW (TC)		72	4-231-581-01	HOLDER (FL)	
57	4-244-090-01	COVER (AL-TC)		73	1-773-110-11	WIRE (FLAT TYPE) (19 CORE)	
58	4-244-074-01	HOLDER (TC-L)					
59	4-224-578-21	KNOB (MIC)		74	A-4731-327-A	GAME IN BOARD, COMPLETE	
				75	1-796-487-31	DECK, MECHANICAL	
60	4-244-097-01	KNOB (VOL)		76	4-243-609-01	BELT (AF)	
61	4-244-089-11	COVER (AL-STR)		77	4-243-610-01	BELT (AL)	
62	4-951-620-01	SCREW (2.6X8), +BVTP		78	4-243-608-01	BELT (BR)	
63	4-963-404-21	EMBLEM (5-A), SONY					
64	4-224-104-11	DAMPER		79	1-751-688-11	WIRE (FLAT TYPE) (13 CORE)	
				80	3-378-434-01	CUSHION, SARANET	
65	4-244-094-01	SPRING (L)		FL601	1-518-862-11	INDICATOR TUBE, FLUORESCENT	
66	4-244-095-01	SPRING (R)		#4	7-685-781-09	SCREW +PTT 2X4 (S)	

HCD-GN700/GX8800

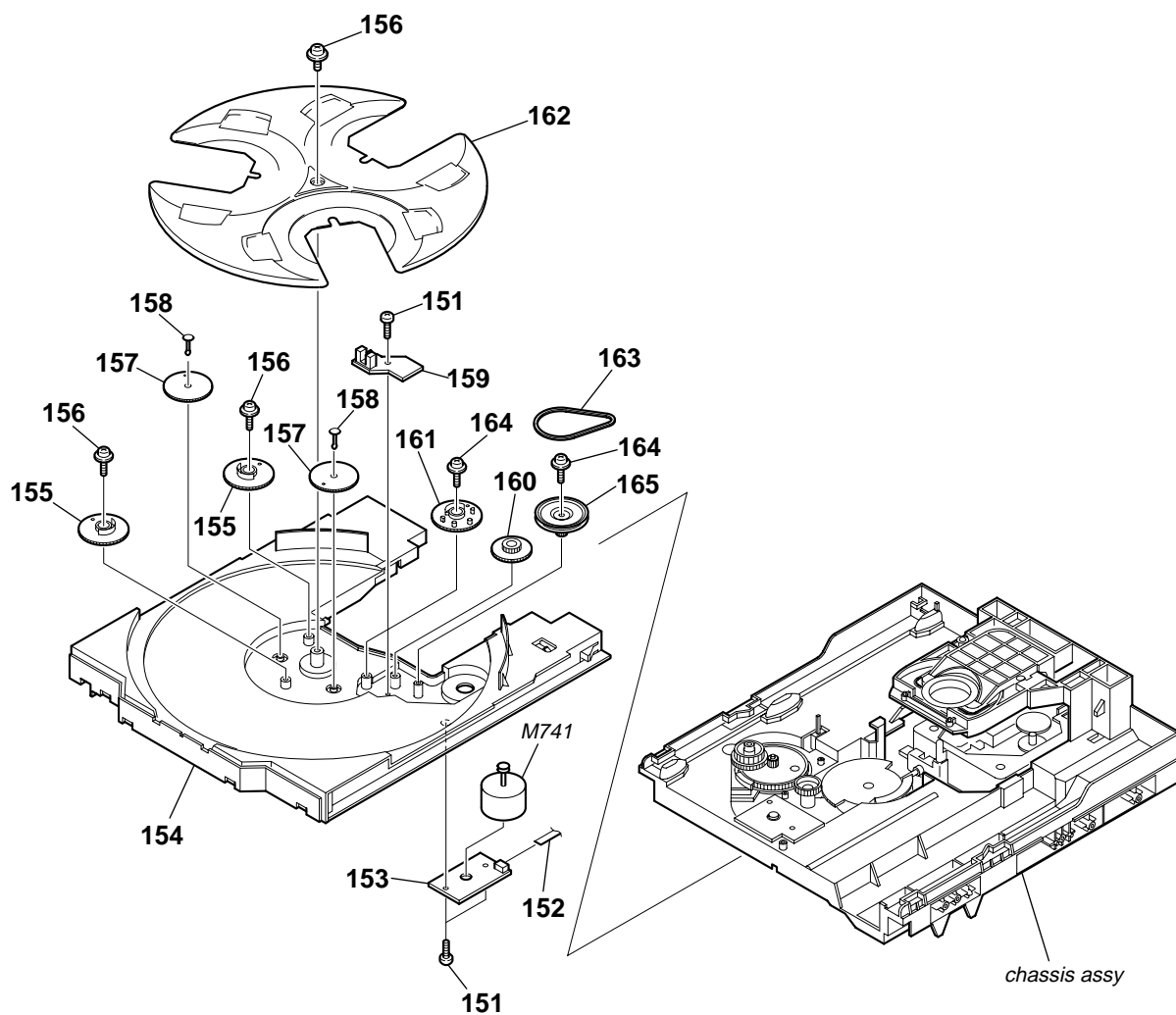
8-3. CHASSIS SECTION



The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

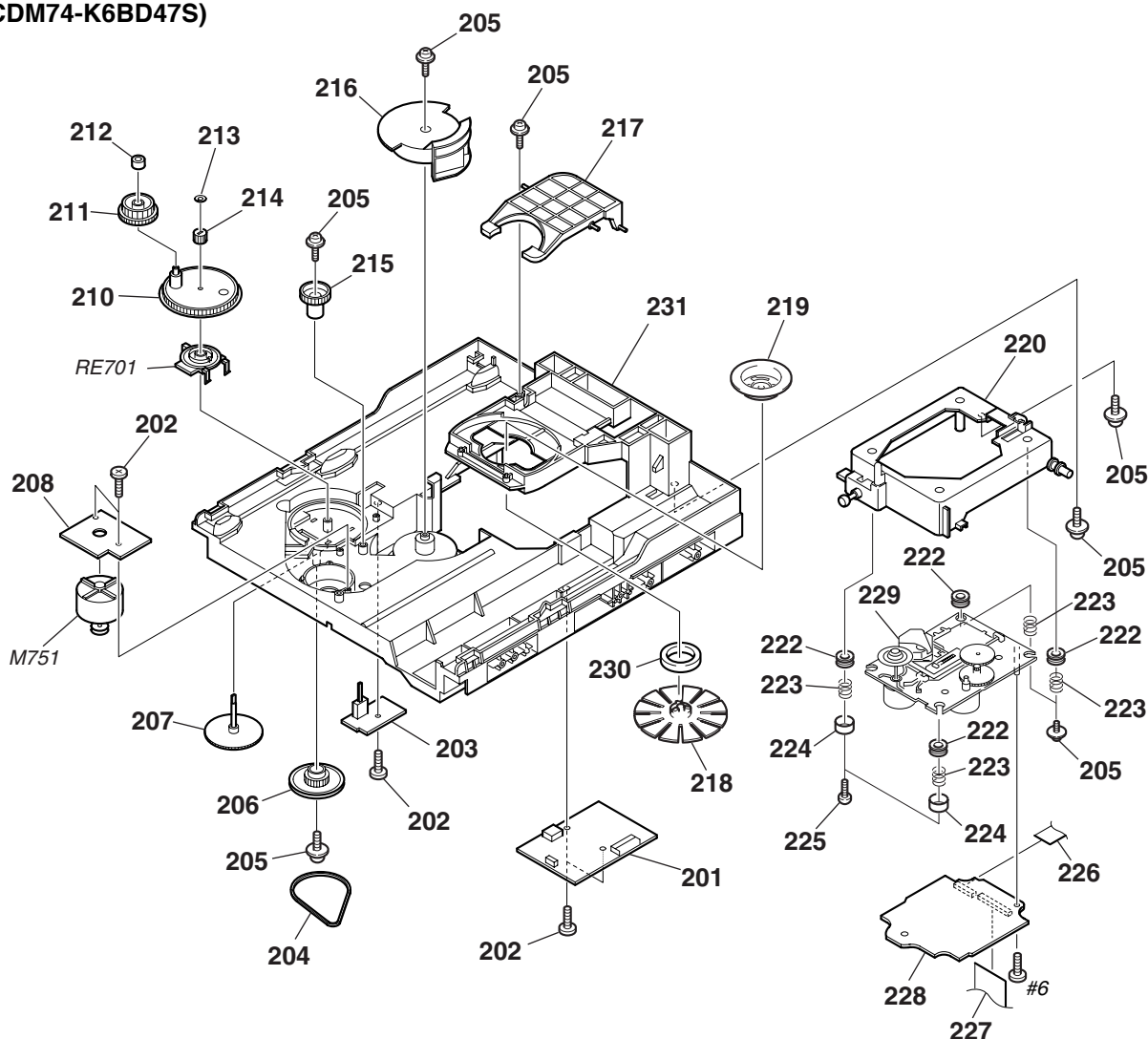
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	1-686-930-11	TRANS BOARD		Δ F975	1-533-454-11	FUSE, GLASS TUBE (DIA. 5) (6.3A 125V)	(GX8800)
Δ 103	1-777-071-53	CORD, POWER (GN700:E51)		Δ F975	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) (T6.3AL 250V)	(GN700)
Δ 103	1-783-531-31	CORD, POWER (GX8800)		Δ F976	1-576-537-11	FUSE, GLASS TUBE (DIA.5) (8A 125V)	(GX8800)
Δ 103	1-783-941-12	CORD, POWER (GN700:AR)		Δ F976	1-576-655-11	FUSE, GLASS TUBE (DIA. 5) (T8AL 250)	(GN700)
Δ 103	1-791-901-12	CORD, POWER (GN700:E2,E3,MX)		Δ F977	1-576-537-11	FUSE, GLASS TUBE (DIA.5) (8A 125V)	(GX8800)
* 104	3-703-244-00	BUSHING (2104), CORD (GN700:AR,E51,MX,GX8800)		Δ F977	1-576-655-11	FUSE, GLASS TUBE (DIA. 5) (T8AL 250)	(GN700)
104	3-703-571-11	BUSHING (S) (4516), CORD (GN700:E2,E3)		Δ F978	1-533-452-11	FUSE, GLASS TUBE (DIA. 5) (4A 125V)	(GX8800)
105	A-4731-356-A	MAIN BOARD, COMPLETE (GN700:AR,E2,E51,MX)		Δ F978	1-533-471-11	FUSE, GLASS TUBE (DIA. 5) (T4AL 250V)	(GN700)
105	A-4733-061-A	MAIN BOARD, COMPLETE (GN700:E3)		Δ T910	1-439-555-11	POWER TRANSFORMER	(GN700)
105	A-4733-066-A	MAIN BOARD, COMPLETE (GX8800)		Δ T910	1-439-617-11	POWER TRANSFORMER	(GX8800)
106	4-225-252-01	CUSHION (FOOT)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
107	A-4731-361-A	POWER AMP BOARD, COMPLETE (GN700)		#3	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
107	A-4733-071-A	POWER AMP BOARD, COMPLETE (GX8800)		#5	7-685-881-09	SCREW +BVTT 4X8 (S)	
108	4-943-687-01	HOLDER, PC BOARD					
* 109	4-988-533-01	HOLDER, PWB					
Δ F974	1-533-454-11	FUSE, GLASS TUBE (DIA. 5) (6.3A 125V)	(GX8800)				
Δ F974	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) (T6.3AL 250V)	(GN700)				

8-4. CD MECHANISM DECK SECTION-1 (CDM74-K6BD47S)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	4-218-253-21	SCREW (M2.6), +BTTP		160	4-243-820-01	GEAR (TABLE)	
152	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)		161	4-243-819-01	GEAR (GENEVA)	
153	1-687-134-11	MOTOR (TB) BOARD		162	4-243-816-01	TRAY	
154	4-243-815-01	TABLE (LOADING)		163	4-243-823-01	BELT (TABLE)	
155	4-245-571-01	GEAR (STOPPER)		164	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
156	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING		165	4-243-821-01	PULLEY (TABLE)	
157	4-245-570-01	GEAR (JOINT)		M741	A-4723-963-A	MOTOR ASSY, TABLE	
158	4-245-572-01	BUSHING (GEAR)					
159	1-687-132-11	SENSOR BOARD					

8-5. CD MECHANISM DECK SECTION-2 (CDM74-K6BD47S)



The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	1-687-135-11	DRIVER BOARD		222	4-277-549-11	INSULATOR	
202	4-218-253-31	SCREW (M2.6), +BTTP		223	4-277-045-11	SPRING (INSULATOR), COIL	
203	1-687-669-11	SW BOARD		224	4-231-151-01	STOPPER (BU)	
204	4-244-034-01	BELT (LOADING)		220	X-4955-536-1	HOLDER (213) ASSY	
205	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING		222	4-277-549-11	INSULATOR	
206	4-225-844-01	GEAR (LOADING A)		223	4-277-045-11	SPRING (INSULATOR), COIL	
207	4-224-613-01	GEAR (SHAFT)		224	4-231-151-01	STOPPER (BU)	
208	1-687-133-11	MOTOR (LD) BOARD		225	4-218-253-31	SCREW (M2.6), +BTTP	
210	4-244-108-01	GEAR, SWING		226	1-782-817-11	WIRE (FLAT TYPE) (16 CORE)	
211	4-224-609-01	GEAR (LOADING C)		227	1-775-280-11	WIRE (FLAT TYPE) (31 CORE)	
212	4-224-608-01	COLLAR, SWING		228	A-4731-446-A	CD BOARD, COMPLETE	
213	3-016-533-01	WASHER (FR), STOPPER		Δ 229	A-4735-357-A	BASE ASSY, OP (including KSS-213DCP)	
214	4-224-611-01	GEAR (LOADING B)		230	1-471-035-11	MAGNET ASSY	
215	4-224-606-01	GEAR (RV)		231	4-243-817-11	CHASSIS	
216	4-243-818-01	GEAR (U/D)		M751	A-4737-553-A	MOTOR ASSY, LOADING	
217	4-243-822-01	LEVER (LIFTER)		RE701	1-477-680-11	ENCODER, ROTARY	
218	X-4955-774-1	PULLEY (SM) ASSY, CHUCKING		#6	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
219	4-221-688-01	PULLEY (B), CHUCKING					

SECTION 9 ELECTRICAL PARTS LIST

CD

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- **RESISTORS**
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• **SEMICONDUCTORS**In each case, u: μ , for example:uA. . . : μ A. . . uPA. . . : μ PA. . .uPB. . . : μ PB. . . uPC. . . : μ PC. . .uPD. . . : μ PD. . .• **CAPACITORS**uF: μ F• **COILS**uH: μ H

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

• **Abbreviation**

AR : Argentine model

E2 : 120 V AC Area in E model

E3 : 240 V AC Area in E model

E51 : Chiri and Peru model

MX : Mexican model

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
	A-4731-446-A	CD BOARD, COMPLETE *****				C249	1-162-974-11	CERAMIC CHIP 0.01uF	50V		
						C250	1-164-360-11	CERAMIC CHIP 0.1uF	16V		
						C251	1-164-360-11	CERAMIC CHIP 0.1uF	16V		
		< CAPACITOR >				C252	1-164-360-11	CERAMIC CHIP 0.1uF	16V		
C101	1-164-315-11	CERAMIC CHIP 470PF	5%	50V		C253	1-164-360-11	CERAMIC CHIP 0.1uF	16V		
C102	1-107-826-11	CERAMIC CHIP 0.1uF	10%	16V		C254	1-162-919-11	CERAMIC CHIP 22PF	5%	50V	
C103	1-164-315-11	CERAMIC CHIP 470PF	5%	50V		C255	1-164-360-11	CERAMIC CHIP 0.1uF	16V		
C104	1-162-967-11	CERAMIC CHIP 0.0033uF	10%	50V		C256	1-164-360-11	CERAMIC CHIP 0.1uF	16V		
C107	1-162-919-11	CERAMIC CHIP 22PF	5%	50V		C257	1-165-112-11	CERAMIC CHIP 0.33uF	16V		
C108	1-164-360-11	CERAMIC CHIP 0.1uF			16V	C258	1-162-919-11	CERAMIC CHIP 22PF	5%	50V	
C109	1-164-360-11	CERAMIC CHIP 0.1uF			16V	C259	1-164-361-11	CERAMIC CHIP 0.047uF	16V		
C110	1-107-826-11	CERAMIC CHIP 0.1uF	10%	16V		C260	1-126-246-11	ELECT CHIP 220uF	20%	4V	
C111	1-126-209-11	ELECT CHIP 100uF	20%	4V		C261	1-126-607-11	ELECT CHIP 47uF	20%	4V	
C113	1-126-209-11	ELECT CHIP 100uF	20%	4V		C262	1-126-607-11	ELECT CHIP 47uF	20%	4V	
C114	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V		C263	1-125-822-11	TANTAL. CHIP 10uF	20%	10V	
C115	1-126-246-11	ELECT CHIP 220uF	20%	4V		C264	1-126-607-11	ELECT CHIP 47uF	20%	4V	
C116	1-107-826-11	CERAMIC CHIP 0.1uF	10%	16V		C265	1-126-607-11	ELECT CHIP 47uF	20%	4V	
C117	1-164-360-11	CERAMIC CHIP 0.1uF			16V	C266	1-164-360-11	CERAMIC CHIP 0.1uF	16V		
C118	1-115-156-11	CERAMIC CHIP 1uF			10V	C267	1-162-966-11	CERAMIC CHIP 0.0022uF	10%	50V	
C119	1-115-156-11	CERAMIC CHIP 1uF			10V	C268	1-162-966-11	CERAMIC CHIP 0.0022uF	10%	50V	
C131	1-110-563-11	CERAMIC CHIP 0.068uF	10%	16V		C269	1-125-822-11	TANTAL. CHIP 10uF	20%	10V	
C132	1-164-227-11	CERAMIC CHIP 0.022uF	10%	25V		C270	1-162-960-11	CERAMIC CHIP 220PF	10%	50V	
C133	1-125-838-11	CERAMIC CHIP 2.2uF	10%	6.3V		C271	1-162-970-11	CERAMIC CHIP 0.01uF	10%	25V	
C150	1-128-995-21	ELECT CHIP 100uF	20%	10V		C273	1-162-960-11	CERAMIC CHIP 220PF	10%	50V	
C151	1-164-360-11	CERAMIC CHIP 0.1uF			16V	C274	1-162-970-11	CERAMIC CHIP 0.01uF	10%	25V	
C152	1-164-360-11	CERAMIC CHIP 0.1uF			16V	C275	1-126-246-11	ELECT CHIP 220uF	20%	4V	
C158	1-162-966-11	CERAMIC CHIP 0.0022uF	10%	50V		C276	1-126-209-11	ELECT CHIP 100uF	20%	4V	
C202	1-164-360-11	CERAMIC CHIP 0.1uF			16V	C279	1-100-588-21	ELECT CHIP 1000uF	20%	6.3V	
C203	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V		C292	1-115-156-11	CERAMIC CHIP 1uF	10V		
C205	1-164-360-11	CERAMIC CHIP 0.1uF			16V			< CONNECTOR >			
C206	1-126-607-11	ELECT CHIP 47uF	20%	4V		CN101	1-784-387-11	CONNECTOR, FFC/FPC 31P			
C208	1-164-360-11	CERAMIC CHIP 0.1uF			16V	CN102	1-777-937-11	CONNECTOR, FFC/FPC 16P			
C209	1-162-927-11	CERAMIC CHIP 100PF	5%	50V				< FERRITE BEAD >			
C211	1-107-826-11	CERAMIC CHIP 0.1uF	10%	16V		FB101	1-500-283-11	FERRITE 0uH			
C212	1-162-966-11	CERAMIC CHIP 0.0022uF	10%	50V		FB102	1-500-283-11	FERRITE 0uH			
C213	1-162-967-11	CERAMIC CHIP 0.0033uF	10%	50V		FB103	1-500-283-11	FERRITE 0uH			
C215	1-117-863-11	CERAMIC CHIP 0.47uF	10%	6.3V		FB104	1-500-283-11	FERRITE 0uH			
C216	1-162-970-11	CERAMIC CHIP 0.01uF	10%	25V		FB106	1-500-283-11	FERRITE 0uH			
C222	1-164-360-11	CERAMIC CHIP 0.1uF			16V	FB107	1-500-283-11	FERRITE 0uH			
C223	1-126-607-11	ELECT CHIP 47uF	20%	4V		FB291	1-500-283-11	FERRITE 0uH			
C224	1-164-360-11	CERAMIC CHIP 0.1uF			16V			< IC >			
C226	1-126-607-11	ELECT CHIP 47uF	20%	4V		IC101	8-752-408-73	IC CXD3068Q			
C227	1-164-360-11	CERAMIC CHIP 0.1uF			16V						
C229	1-164-360-11	CERAMIC CHIP 0.1uF			16V						
C230	1-164-360-11	CERAMIC CHIP 0.1uF			16V						
C231	1-126-209-11	ELECT CHIP 100uF	20%	4V							

HCD-GN700/GX8800

CD	CD SWITCH	DISPLAY
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Ref. No.	Part No.	Description	Remarks
IC103	8-752-106-21	IC CXA2647N-T4	
IC104	6-704-150-01	IC CXD9717R-008	
IC121	6-700-394-01	IC BA25BC0FP-E2	
IC150	8-759-677-90	IC BA5947FP-E2	
		< COIL >	
L101	1-412-063-21	INDUCTOR 68uH	
		< TRANSISTOR >	
Q101	8-729-046-90	TRANSISTOR 2SB970-(TX).S0	
		< RESISTOR >	
R101	1-216-864-11	METAL CHIP 0 5% 1/10W	
R102	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R103	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R104	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R105	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R111	1-216-847-11	METAL CHIP 150K 5% 1/10W	
R113	1-216-828-11	METAL CHIP 3.9K 5% 1/10W	
R114	1-216-852-11	METAL CHIP 390K 5% 1/10W	
R117	1-216-846-11	METAL CHIP 120K 5% 1/10W	
R118	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R120	1-216-846-11	METAL CHIP 120K 5% 1/10W	
R122	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R123	1-216-791-11	METAL CHIP 3.3 5% 1/10W	
R125	1-216-836-11	METAL CHIP 18K 5% 1/10W	
R126	1-216-836-11	METAL CHIP 18K 5% 1/10W	
R131	1-216-843-11	METAL CHIP 68K 5% 1/10W	
R132	1-216-851-11	METAL CHIP 330K 5% 1/10W	
R133	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R151	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R152	1-216-849-11	METAL CHIP 220K 5% 1/10W	
R153	1-216-864-11	METAL CHIP 0 5% 1/10W	
R155	1-216-864-11	METAL CHIP 0 5% 1/10W	
R156	1-216-864-11	METAL CHIP 0 5% 1/10W	
R201	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R202	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R203	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R204	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R205	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R206	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R207	1-216-857-11	METAL CHIP 1M 5% 1/10W	
R212	1-216-817-11	METAL CHIP 470 5% 1/10W	
R213	1-216-817-11	METAL CHIP 470 5% 1/10W	
R214	1-216-864-11	METAL CHIP 0 5% 1/10W	
R215	1-216-864-11	METAL CHIP 0 5% 1/10W	
R216	1-216-857-11	METAL CHIP 1M 5% 1/10W	
R218	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R219	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R220	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R230	1-216-813-11	METAL CHIP 220 5% 1/10W	
R231	1-216-809-11	METAL CHIP 100 5% 1/10W	
R232	1-216-809-11	METAL CHIP 100 5% 1/10W	
R233	1-216-809-11	METAL CHIP 100 5% 1/10W	
R249	1-216-817-11	METAL CHIP 470 5% 1/10W	
R250	1-216-813-11	METAL CHIP 220 5% 1/10W	
R251	1-216-813-11	METAL CHIP 220 5% 1/10W	
R252	1-216-857-11	METAL CHIP 1M 5% 1/10W	
R253	1-216-819-11	METAL CHIP 680 5% 1/10W	

Ref. No.	Part No.	Description	Remarks
R254	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R255	1-216-809-11	METAL CHIP 100 5% 1/10W	
R257	1-216-809-11	METAL CHIP 100 5% 1/10W	
R259	1-216-809-11	METAL CHIP 100 5% 1/10W	
R260	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R265	1-216-813-11	METAL CHIP 220 5% 1/10W	
R266	1-216-813-11	METAL CHIP 220 5% 1/10W	
R271	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R272	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R275	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R276	1-216-809-11	METAL CHIP 100 5% 1/10W	
R277	1-216-864-11	METAL CHIP 0 5% 1/10W	
R279	1-216-809-11	METAL CHIP 100 5% 1/10W	
R280	1-216-296-11	SHORT CHIP 0	
		< SWITCH >	
S101	1-771-853-11	SWITCH, DETECTION (LIMIT)	
		< VIBRATOR >	
X201	1-767-408-21	VIBRATOR, CRYSTAL (16.9MHz)	

	1-686-936-11	CD SWITCH BOARD	

		< DIODE >	
D748	8-719-058-04	DIODE SEL5223S-TP15(I/⏻)	
		< TRANSISTOR >	
Q748	8-729-116-02	TRANSISTOR BA1A4M-TP	
		< RESISTOR >	
R748	1-249-411-11	CARBON 330 5% 1/4W	
R749	1-249-410-11	CARBON 270 5% 1/4W F	
R788	1-249-427-11	CARBON 6.8K 5% 1/4W F	
R789	1-249-429-11	CARBON 10K 5% 1/4W	
R790	1-249-431-11	CARBON 15K 5% 1/4W	
R791	1-249-433-11	CARBON 22K 5% 1/4W	
R792	1-249-435-11	CARBON 33K 5% 1/4W	
		< SWITCH >	
S749	1-762-875-21	SWITCH, KEYBOARD (I/⏻)	
S788	1-762-875-21	SWITCH, KEYBOARD (▲,OPEN/CLOSE)	
S789	1-762-875-21	SWITCH, KEYBOARD (EX-CHANGE/DISK SKIP)	
S790	1-762-875-21	SWITCH, KEYBOARD (DISC 3)	
S791	1-762-875-21	SWITCH, KEYBOARD (DISC 2)	
S792	1-762-875-21	SWITCH, KEYBOARD (DISC 1)	

	A-4731-330-A	DISPLAY BOARD, COMPLETE (GN700)	
	A-4733-055-A	DISPLAY BOARD, COMPLETE (GX8800)	

	4-231-581-01	HOLDER (FL)	
		< CAPACITOR >	
C100	1-126-964-11	ELECT 10uF 20% 50V	
C101	1-137-194-81	FILM 0.47uF 5% 50V	
C102	1-137-194-81	FILM 0.47uF 5% 50V	

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C104	1-126-964-11	ELECT	10uF 20% 50V	D604	8-719-057-97	DIODE SEL5923A-TP15 (CD)	
C105	1-126-957-11	ELECT	0.22uF 20% 50V	D605	8-719-057-97	DIODE SEL5923A-TP15 (TUNER/BAND)	
C106	1-136-165-00	FILM	0.1uF 5% 50V	D606	8-719-057-97	DIODE SEL5923A-TP15 (TAPE A/B)	
C107	1-136-165-00	FILM	0.1uF 5% 50V	D610	8-719-109-85	DIODE MTZJ-T-72-5.1B	
C109	1-124-261-00	ELECT	10uF 20% 50V	< FLUORESCENT INDICATOR TUBE >			
C110	1-126-957-11	ELECT	0.22uF 20% 50V	FL601	1-518-862-11	INDICATOR TUBE, FLUORESCENT	
C111	1-136-157-00	FILM	0.022uF 5% 50V	< IC >			
C112	1-136-157-00	FILM	0.022uF 5% 50V	IC101	8-759-167-88	IC NJM4565D	
C114	1-126-964-11	ELECT	10uF 20% 50V	IC102	8-759-167-88	IC NJM4565D	
C115	1-126-957-11	ELECT	0.22uF 20% 50V	IC601	6-802-534-01	IC MB90M407PF-G-124-BND	
C116	1-137-367-11	MYLAR	0.0033uF 5% 50V	< TRANSISTOR >			
C117	1-137-367-11	MYLAR	0.0033uF 5% 50V	Q100	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
C118	1-126-964-11	ELECT	10uF 20% 50V	Q601	8-729-116-02	TRANSISTOR BA1A4M-TP	
C119	1-124-261-00	ELECT	10uF 20% 50V	Q602	8-729-116-02	TRANSISTOR BA1A4M-TP	
C120	1-126-957-11	ELECT	0.22uF 20% 50V	Q603	8-729-116-02	TRANSISTOR BA1A4M-TP	
C121	1-126-963-11	ELECT	4.7uF 20% 50V	Q604	8-729-116-02	TRANSISTOR BA1A4M-TP	
C122	1-124-584-00	ELECT	100uF 20% 10V	Q605	8-729-140-04	TRANSISTOR 2SB1116-TP-LK	
C123	1-104-665-11	ELECT	100uF 20% 10V	Q606	8-729-140-04	TRANSISTOR 2SB1116-TP-LK	
C124	1-126-964-11	ELECT	10uF 20% 50V	Q707	8-729-116-02	TRANSISTOR BA1A4M-TP	
C125	1-164-159-11	CERAMIC	0.1uF 50V	Q807	8-729-029-94	TRANSISTOR BA1L3Z-TP	
C152	1-162-286-31	CERAMIC	220PF 10% 50V	Q808	8-729-029-94	TRANSISTOR BA1L3Z-TP	
C153	1-162-286-31	CERAMIC	220PF 10% 50V	< RESISTOR >			
C154	1-162-286-31	CERAMIC	220PF 10% 50V	R102	1-249-419-11	CARBON 1.5K 5% 1/4W	F
C155	1-162-286-31	CERAMIC	220PF 10% 50V	R103	1-249-419-11	CARBON 1.5K 5% 1/4W	F
C156	1-162-286-31	CERAMIC	220PF 10% 50V	R104	1-249-437-11	CARBON 47K 5% 1/4W	
C157	1-162-286-31	CERAMIC	220PF 10% 50V	R105	1-249-415-11	CARBON 680 5% 1/4W	F
C618	1-162-306-11	CERAMIC	0.01uF 30% 16V	R106	1-249-441-11	CARBON 100K 5% 1/4W	
C619	1-124-589-11	ELECT	47uF 20% 16V	R107	1-249-441-11	CARBON 100K 5% 1/4W	
C620	1-162-306-11	CERAMIC	0.01uF 30% 16V	R108	1-249-419-11	CARBON 1.5K 5% 1/4W	F
C622	1-126-163-11	ELECT	4.7uF 20% 50V	R109	1-249-419-11	CARBON 1.5K 5% 1/4W	F
C623	1-162-294-31	CERAMIC	0.001uF 10% 50V	R110	1-249-437-11	CARBON 47K 5% 1/4W	
C624	1-162-306-11	CERAMIC	0.01uF 30% 16V	R111	1-249-415-11	CARBON 680 5% 1/4W	F
C625	1-162-306-11	CERAMIC	0.01uF 30% 16V	R112	1-249-441-11	CARBON 100K 5% 1/4W	
C626	1-162-306-11	CERAMIC	0.01uF 30% 16V	R113	1-249-441-11	CARBON 100K 5% 1/4W	
C627	1-162-306-11	CERAMIC	0.01uF 30% 16V	R114	1-249-419-11	CARBON 1.5K 5% 1/4W	F
C628	1-162-306-11	CERAMIC	0.01uF 30% 16V	R115	1-249-419-11	CARBON 1.5K 5% 1/4W	F
C651	1-164-159-11	CERAMIC	0.1uF 50V	R116	1-249-437-11	CARBON 47K 5% 1/4W	
C652	1-124-261-00	ELECT	10uF 20% 50V	R117	1-249-415-11	CARBON 680 5% 1/4W	F
C653	1-124-261-00	ELECT	10uF 20% 50V	R118	1-249-441-11	CARBON 100K 5% 1/4W	
C710	1-162-306-11	CERAMIC	0.01uF 30% 16V	R119	1-249-441-11	CARBON 100K 5% 1/4W	
C711	1-162-306-11	CERAMIC	0.01uF 30% 16V	R120	1-249-419-11	CARBON 1.5K 5% 1/4W	F
C712	1-162-306-11	CERAMIC	0.01uF 30% 16V	R121	1-249-419-11	CARBON 1.5K 5% 1/4W	F
< CONNECTOR >				R122	1-249-437-11	CARBON 47K 5% 1/4W	
* CN601	1-569-935-11	SOCKET, CONNECTOR 19P		R123	1-249-415-11	CARBON 680 5% 1/4W	F
CN604	1-568-860-11	SOCKET, CONNECTOR 17P		R124	1-249-441-11	CARBON 100K 5% 1/4W	
< DIODE >				R125	1-249-441-11	CARBON 100K 5% 1/4W	
D100	8-719-983-63	DIODE MTZJ-T-72-3.3B		R127	1-249-409-11	CARBON 220 5% 1/4W	F
D101	8-719-991-33	DIODE 1SS133T-72		R128	1-247-895-00	CARBON 470K 5% 1/4W	
D102	8-719-991-33	DIODE 1SS133T-72		R129	1-249-425-11	CARBON 4.7K 5% 1/4W	F
D103	8-719-991-33	DIODE 1SS133T-72		R130	1-249-425-11	CARBON 4.7K 5% 1/4W	F
D104	8-719-991-33	DIODE 1SS133T-72		R131	1-249-441-11	CARBON 100K 5% 1/4W	
D105	8-719-991-33	DIODE 1SS133T-72		R132	1-249-441-11	CARBON 100K 5% 1/4W	
D106	6-500-522-11	DIODE 10EDB40-TA2B5		R133	1-249-441-11	CARBON 100K 5% 1/4W	
D107	6-500-522-11	DIODE 10EDB40-TA2B5		R134	1-249-441-11	CARBON 100K 5% 1/4W	
D601	8-719-063-93	DIODE SLR325VC-N-T32 (REC PAUSE/START)		R136	1-249-439-11	CARBON 68K 5% 1/4W	
D602	8-719-057-97	DIODE SEL5923A-TP15 (GAME)		R137	1-249-433-11	CARBON 22K 5% 1/4W	
D603	8-719-057-97	DIODE SEL5923A-TP15 (MD(VIDEO))					

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DISPLAY

DRIVER

Ref. No.	Part No.	Description	Remarks
R138	1-249-417-11	CARBON 1K 5%	1/4W F
R139	1-249-411-11	CARBON 330 5%	1/4W
R140	1-247-807-31	CARBON 100 5%	1/4W
R626	1-249-411-11	CARBON 330 5%	1/4W
R627	1-249-411-11	CARBON 330 5%	1/4W
R628	1-249-411-11	CARBON 330 5%	1/4W
R629	1-249-411-11	CARBON 330 5%	1/4W
R630	1-249-411-11	CARBON 330 5%	1/4W
R631	1-249-415-11	CARBON 680 5%	1/4W F
R632	1-249-415-11	CARBON 680 5%	1/4W F
R633	1-249-415-11	CARBON 680 5%	1/4W F
R634	1-249-429-11	CARBON 10K 5%	1/4W
R635	1-249-429-11	CARBON 10K 5%	1/4W
R636	1-249-429-11	CARBON 10K 5%	1/4W
R637	1-249-429-11	CARBON 10K 5%	1/4W
R645	1-249-429-11	CARBON 10K 5%	1/4W
R646	1-247-807-31	CARBON 100 5%	1/4W
R647	1-247-807-31	CARBON 100 5%	1/4W
R652	1-249-429-11	CARBON 10K 5%	1/4W
R653	1-249-429-11	CARBON 10K 5%	1/4W
R654	1-247-807-31	CARBON 100 5%	1/4W
R655	1-247-807-31	CARBON 100 5%	1/4W
R656	1-247-807-31	CARBON 100 5%	1/4W
R657	1-249-431-11	CARBON 15K 5%	1/4W
R658	1-249-431-11	CARBON 15K 5%	1/4W
R659	1-249-431-11	CARBON 15K 5%	1/4W
R660	1-247-903-00	CARBON 1M 5%	1/4W
R661	1-249-429-11	CARBON 10K 5%	1/4W
R662	1-249-429-11	CARBON 10K 5%	1/4W
R663	1-249-429-11	CARBON 10K 5%	1/4W
R751	1-249-413-11	CARBON 470 5%	1/4W F
R752	1-249-415-11	CARBON 680 5%	1/4W F
R753	1-249-417-11	CARBON 1K 5%	1/4W F
R754	1-249-419-11	CARBON 1.5K 5%	1/4W F
R755	1-249-419-11	CARBON 1.5K 5%	1/4W F
R756	1-249-421-11	CARBON 2.2K 5%	1/4W F
R757	1-247-843-11	CARBON 3.3K 5%	1/4W
R758	1-249-425-11	CARBON 4.7K 5%	1/4W F
R779	1-249-413-11	CARBON 470 5%	1/4W F
R781	1-249-415-11	CARBON 680 5%	1/4W F
R782	1-249-417-11	CARBON 1K 5%	1/4W F
R783	1-249-419-11	CARBON 1.5K 5%	1/4W F
R784	1-249-419-11	CARBON 1.5K 5%	1/4W F
R785	1-249-421-11	CARBON 2.2K 5%	1/4W F
R786	1-247-843-11	CARBON 3.3K 5%	1/4W
R787	1-249-425-11	CARBON 4.7K 5%	1/4W F
R807	1-249-441-11	CARBON 100K 5%	1/4W
R808	1-249-441-11	CARBON 100K 5%	1/4W
R817	1-249-406-11	CARBON 120 5%	1/4W F
R818	1-249-408-11	CARBON 180 5%	1/4W F
R819	1-249-408-11	CARBON 180 5%	1/4W F
R820	1-249-408-11	CARBON 180 5%	1/4W F
R821	1-249-406-11	CARBON 120 5%	1/4W F
R822	1-249-417-11	CARBON 1K 5%	1/4W F
R823	1-249-417-11	CARBON 1K 5%	1/4W F
< SWITCH >			
S751	1-762-875-21	SWITCH, KEYBOARD (<I>)	
S752	1-762-875-21	SWITCH, KEYBOARD (■)	

Ref. No.	Part No.	Description	Remarks
S753	1-762-875-21	SWITCH, KEYBOARD (■)	
S754	1-762-875-21	SWITCH, KEYBOARD (-,I<<<)	
S755	1-762-875-21	SWITCH, KEYBOARD (>>>I,+)	
S756	1-762-875-21	SWITCH, KEYBOARD (>>>,ALBUM +)	
S757	1-762-875-21	SWITCH, KEYBOARD (<<<,ALBUM -)	
S758	1-762-875-21	SWITCH, KEYBOARD (REC PAUSE/START)	
S779	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)	
S782	1-762-875-21	SWITCH, KEYBOARD (GAME MIXING)	
S783	1-762-875-21	SWITCH, KEYBOARD (GAME)	
S784	1-762-875-21	SWITCH, KEYBOARD (MD(VIDEO))	
S785	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)	
S786	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)	
S787	1-762-875-21	SWITCH, KEYBOARD (CD)	
< VIBRATOR >			
X601	1-781-282-51	VIBRATOR, CERAMIC (4MHz)	

	1-687-135-11	DRIVER BOARD	

< CAPACITOR >			
C715	1-126-933-11	ELECT 100uF 20%	16V
C731	1-126-964-51	ELECT 10uF 20%	50V
C735	1-164-159-11	CERAMIC 0.1uF	50V
C736	1-164-159-11	CERAMIC 0.1uF	50V
C737	1-164-159-11	CERAMIC 0.1uF	50V
C741	1-162-306-11	CERAMIC 0.01uF 30%	16V
C751	1-162-306-11	CERAMIC 0.01uF 30%	16V
C752	1-164-159-11	CERAMIC 0.1uF	50V
< CONNECTOR >			
CN701	1-785-338-11	PIN, CONNECTOR(LIGHT ANGLE)12P	
CN702	1-784-766-11	CONNECTOR, FFC 5P	
* CN703	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P	
CN704	1-785-328-11	PIN, CONNECTOR (LIGHT ANGRE)2P	
< DIODE >			
D701	8-719-947-16	DIODE MTZJ-T-72-5.1A	
D711	8-719-983-66	DIODE MTZJ-T-72-3.6B	
< IC >			
IC701	8-759-598-69	IC BA6956AN	
IC712	8-759-598-69	IC BA6956AN	
< TRANSISTOR >			
Q731	8-729-029-66	TRANSISTOR DTC114ESA-TP	
< RESISTOR >			
R701	1-249-413-11	CARBON 470 5%	1/4W F
R702	1-247-807-31	CARBON 100 5%	1/4W
R711	1-249-417-11	CARBON 1K 5%	1/4W F
R712	1-249-425-11	CARBON 4.7K 5%	1/4W F
R713	1-249-433-11	CARBON 22K 5%	1/4W
R721	1-249-425-11	CARBON 4.7K 5%	1/4W F
R722	1-249-425-11	CARBON 4.7K 5%	1/4W F
R723	1-249-425-11	CARBON 4.7K 5%	1/4W F
R731	1-247-807-31	CARBON 100 5%	1/4W
R732	1-249-425-11	CARBON 4.7K 5%	1/4W F

DRIVER

GAME IN

MAIN

Ref. No.	Part No.	Description			Remarks
R733	1-249-417-11	CARBON	1K	5%	1/4W F
R734	1-249-433-11	CARBON	22K	5%	1/4W
R735	1-247-807-31	CARBON	100	5%	1/4W
R751	1-249-425-11	CARBON	4.7K	5%	1/4W F

A-4731-327-A		GAME IN BOARD, COMPLETE			

< CAPACITOR >					
C604	1-124-257-00	ELECT	2.2uF	20%	50V
C606	1-124-257-00	ELECT	2.2uF	20%	50V
C630	1-162-294-31	CERAMIC	0.001uF	10%	50V
C631	1-162-294-31	CERAMIC	0.001uF	10%	50V
C634	1-162-294-31	CERAMIC	0.001uF	10%	50V
C635	1-162-294-31	CERAMIC	0.001uF	10%	50V
C715	1-162-215-31	CERAMIC	47PF	5%	50V
C716	1-162-215-31	CERAMIC	47PF	5%	50V
C717	1-124-584-00	ELECT	100uF	20%	10V
C718	1-124-584-00	ELECT	100uF	20%	10V
C719	1-124-257-00	ELECT	2.2uF	20%	50V
C736	1-124-261-00	ELECT	10uF	20%	50V
C737	1-124-261-00	ELECT	10uF	20%	50V
C738	1-124-257-00	ELECT	2.2uF	20%	50V
C739	1-162-215-31	CERAMIC	47PF	5%	50V
C740	1-162-282-31	CERAMIC	100PF	10%	50V
C741	1-124-250-11	ELECT	0.15uF	20%	50V
C742	1-162-215-31	CERAMIC	47PF	5%	50V
C743	1-162-290-31	CERAMIC	470PF	10%	50V
C744	1-162-294-31	CERAMIC	0.001uF	10%	50V
C747	1-124-257-00	ELECT	2.2uF	20%	50V
C748	1-161-494-00	CERAMIC	0.022uF		25V
C749	1-164-159-11	CERAMIC	0.1uF		50V
< CONNECTOR >					
* CN606	1-564-724-11	PIN, CONNECTOR (SMALL TYPE) 8P			
CN607	1-785-328-11	PIN, CONNECTOR (LIGHT ANGRE) 2P			
< GROUND TERMINAL >					
EP701	1-537-738-21	TERMINAL, GROUND			
EP703	1-537-738-21	TERMINAL, GROUND			
< IC >					
IC722	8-759-167-88	IC NJM4565D			
< JACK >					
J601	1-764-592-11	JACK 3P (GAME INPUT)			
J631	1-794-702-11	JACK, HEADPHONE (PHONES)			
J721	1-817-629-11	JACK (LARGE TYPE) (MIC)			
< TRANSISTOR >					
Q721	8-729-119-79	TRANSISTOR 2SC2785TP-FEK			
< RESISTOR >					
R602	1-249-417-11	CARBON	1K	5%	1/4W F
R603	1-249-417-11	CARBON	1K	5%	1/4W F
R604	1-249-441-11	CARBON	100K	5%	1/4W
R605	1-249-441-11	CARBON	100K	5%	1/4W
R721	1-249-429-11	CARBON	10K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R722	1-249-432-11	CARBON	18K	5%	1/4W
R734	1-247-807-31	CARBON	100	5%	1/4W
R735	1-247-885-00	CARBON	180K	5%	1/4W
R736	1-249-429-11	CARBON	10K	5%	1/4W
R737	1-249-433-11	CARBON	22K	5%	1/4W
R738	1-249-417-11	CARBON	1K	5%	1/4W F
R739	1-249-441-11	CARBON	100K	5%	1/4W
R740	1-249-421-11	CARBON	2.2K	5%	1/4W F
R742	1-249-417-11	CARBON	1K	5%	1/4W F
R743	1-249-429-11	CARBON	10K	5%	1/4W
R744	1-249-441-11	CARBON	100K	5%	1/4W
R745	1-247-807-31	CARBON	100	5%	1/4W
R746	1-249-417-11	CARBON	1K	5%	1/4W F
< VARIABLE RESISTOR >					
RV722	1-227-452-11	RES, VAR, CARBON 50K (MIC LEVEL)			

A-4731-356-A	MAIN BOARD, COMPLETE (GN700:AR,E2,E51,MX)				
A-4733-061-A	MAIN BOARD, COMPLETE (GN700:E3)				
A-4733-066-A	MAIN BOARD, COMPLETE (GX8800)				

7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S				
< CAPACITOR >					
C101	1-126-933-11	ELECT	100uF	20%	16V
C102	1-126-964-11	ELECT	10uF	20%	50V
C103	1-126-964-11	ELECT	10uF	20%	50V
C104	1-126-964-11	ELECT	10uF	20%	50V
C105	1-126-795-11	ELECT	10uF	20%	50V
C106	1-136-157-00	FILM	0.022uF	5%	50V
C107	1-136-157-00	FILM	0.022uF	5%	50V
C108	1-136-159-00	FILM	0.033uF	5%	50V
C109	1-115-871-11	ELECT	1uF	20%	50V
C110	1-137-150-11	MYLAR	0.01uF	5%	100V
C111	1-126-795-11	ELECT	10uF	20%	50V
C112	1-136-169-00	FILM	0.22uF	5%	50V
C113	1-136-171-00	FILM	0.33uF	5%	50V
C114	1-126-964-11	ELECT	10uF	20%	50V
C115	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C116	1-126-933-11	ELECT	100uF	20%	16V
C117	1-126-961-11	ELECT	2.2uF	20%	50V
C121	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C122	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C130	1-126-964-11	ELECT	10uF	20%	50V
C132	1-126-959-11	ELECT	0.47uF	20%	50V
C115	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C140	1-136-495-11	FILM	0.068uF	5%	50V
C150	1-126-964-11	ELECT	10uF	20%	50V
C152	1-126-964-11	ELECT	10uF	20%	50V
C153	1-126-964-11	ELECT	10uF	20%	50V
C154	1-126-964-11	ELECT	10uF	20%	50V
C155	1-126-964-11	ELECT	10uF	20%	50V
C156	1-136-157-00	FILM	0.022uF	5%	50V
C157	1-136-157-00	FILM	0.022uF	5%	50V
C158	1-136-159-00	FILM	0.033uF	5%	50V
C159	1-115-871-11	ELECT	1uF	20%	50V
C160	1-137-150-11	MYLAR	0.01uF	5%	100V
C161	1-126-795-11	ELECT	10uF	20%	50V

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MAIN

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
C162	1-136-169-00	FILM	0.22uF	5%	50V	C385	1-126-964-11	ELECT	10uF	20%	50V
C163	1-136-171-00	FILM	0.33uF	5%	50V	C386	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C167	1-126-961-11	ELECT	2.2uF	20%	50V	C387	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C200	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C390	1-126-935-11	ELECT	470uF	20%	10V
C201	1-104-665-11	ELECT	100uF	20%	10V	C391	1-126-933-11	ELECT	100uF	20%	16V
C203	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C395	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
					(GX8800)	C396	1-126-965-91	ELECT	22uF	20%	50V
C206	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C397	1-126-964-11	ELECT	10uF	20%	50V
C207	1-126-916-11	ELECT	1000uF	20%	6.3V	C398	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C209	1-126-928-11	ELECT	3300uF	20%	10V	C399	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C210	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C416	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C211	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C427	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
						C432	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C219	1-126-964-11	ELECT	10uF	20%	50V	C433	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C269	1-126-964-11	ELECT	10uF	20%	50V	C434	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C286	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V	C498	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C288	1-162-970-11	CERAMIC CHIP	0.47uF	10%	25V	C502	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
					(GX8800)	C503	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C301	1-130-483-00	MYLAR	0.01uF	5%	50V	C510	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C303	1-136-165-00	FILM	0.1uF	5%	50V	C511	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C304	1-126-964-11	ELECT	10uF	20%	50V	C512	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C305	1-126-960-11	ELECT	1uF	20%	50V	C516	1-126-916-11	ELECT	1000uF	20%	6.3V
C306	1-126-961-11	ELECT	2.2uF	20%	50V	C562	1-104-665-11	ELECT	100uF	20%	10V
C307	1-126-964-11	ELECT	10uF	20%	50V						
C308	1-126-935-11	ELECT	470uF	20%	16V	C564	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C309	1-126-947-11	ELECT	47uF	20%	16V	C596	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C310	1-126-964-11	ELECT	10uF	20%	50V	C598	1-126-964-11	ELECT	10uF	20%	50V
C311	1-126-964-11	ELECT	10uF	20%	50V	C601	1-126-964-11	ELECT	10uF	20%	50V
C312	1-126-964-11	ELECT	10uF	20%	50V	C602	1-136-165-00	FILM	0.1uF	5%	50V
C314	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C603	1-136-165-00	FILM	0.1uF	5%	50V
C315	1-126-960-11	ELECT	1uF	20%	50V	C620	1-126-963-11	ELECT	4.7uF	20%	50V
C316	1-126-960-11	ELECT	1uF	20%	50V	C621	1-107-721-11	ELECT	4.7uF	20%	100V
C321	1-164-392-11	CERAMIC CHIP	390PF	10%	50V	C650	1-109-889-11	ELECT	1uF	20%	50V
C326	1-164-392-11	CERAMIC CHIP	390PF	10%	50V	C651	1-107-717-11	ELECT	47uF	20%	50V
C331	1-130-483-00	MYLAR	0.01uF	5%	50V	C656	1-125-891-11	CERAMIC CHIP	0.47uF	10%	25V
C332	1-137-427-11	MYLAR	120PF	5%	50V	C670	1-126-963-11	ELECT	4.7uF	20%	50V
C333	1-162-961-11	CERAMIC CHIP	330PF	10%	50V	C671	1-107-721-11	ELECT	4.7uF	20%	100V
C334	1-162-946-11	CERAMIC CHIP	27PF	5%	50V	C851	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C335	1-137-150-11	MYLAR	0.01uF	5%	100V	C901	1-126-944-11	ELECT	3300uF	20%	25V
C336	1-126-961-11	ELECT	2.2uF	20%	50V	C902	1-126-943-61	ELECT	2200uF	20%	25V
C337	1-130-485-00	MYLAR	0.015uF	5%	50V	C903	1-126-768-11	ELECT	2200uF	20%	16V
C338	1-130-481-00	MYLAR	0.0068uF	5%	50V	C904	1-130-483-00	MYLAR	0.01uF	5%	50V
C339	1-130-481-00	MYLAR	0.0068uF	5%	50V	C905	1-130-483-00	MYLAR	0.01uF	5%	50V
C340	1-130-486-00	MYLAR	0.018uF	10%	50V	C906	1-126-933-11	ELECT	100uF	20%	16V
C341	1-126-964-11	ELECT	10uF	20%	50V	C908	1-136-165-00	FILM	0.1uF	5%	50V
C342	1-126-947-11	ELECT	47uF	20%	16V	C909	1-136-165-00	FILM	0.1uF	5%	50V
C351	1-130-483-00	MYLAR	0.01uF	5%	50V	C910	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C353	1-136-165-00	FILM	0.1uF	5%	50V	C911	1-126-935-11	ELECT	470uF	20%	16V
C354	1-126-964-11	ELECT	10uF	20%	50V	C912	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C355	1-126-960-11	ELECT	1uF	20%	50V	C913	1-126-935-11	ELECT	470uF	20%	16V
C356	1-126-961-11	ELECT	2.2uF	20%	50V	C914	1-126-935-11	ELECT	470uF	20%	16V
C359	1-126-947-11	ELECT	47uF	20%	16V	C915	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C361	1-126-964-11	ELECT	10uF	20%	50V	C917	1-126-935-11	ELECT	470uF	20%	10V
C364	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C918	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C365	1-126-960-11	ELECT	1uF	20%	50V	C919	1-104-656-11	ELECT	2200uF	20%	6.3V
C371	1-164-392-11	CERAMIC CHIP	390PF	10%	50V	C920	1-126-964-11	ELECT	10uF	20%	50V
C376	1-164-392-11	CERAMIC CHIP	390PF	10%	50V	C921	1-126-968-11	ELECT	100uF	20%	50V
C381	1-130-483-00	MYLAR	0.01uF	5%	50V	C922	1-126-961-11	ELECT	2.2uF	20%	50V
C382	1-137-427-11	MYLAR	120PF	5%	50V	C923	1-126-961-11	ELECT	2.2uF	20%	50V
C383	1-162-961-11	CERAMIC CHIP	330PF	10%	50V	C924	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C384	1-162-946-11	CERAMIC CHIP	27PF	5%	50V						

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
< CONNECTOR >				FB516	1-414-772-11	FERRITE	0uH
				FB562	1-414-772-11	FERRITE	0uH
CN201	1-779-299-11	CONNECTOR,FFC(LIF(NON-ZIF))31P		< IC >			
* CN301	1-568-449-11	HOUSING, CONNECTOR(PC BOARD)3P		IC102	6-703-650-11	IC M61529FP-D60G	
* CN304	1-569-930-11	SOCKET, CONNECTOR 13P		IC201	8-749-019-25	IC TOTX141 (CD DIGITAL OUT)	
* CN402	1-569-935-11	SOCKET, CONNECTOR 19P		IC301	6-702-130-01	IC HA12237F	
CN501	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE)4P		IC302	8-759-508-69	IC BA3126N	
				IC303	8-759-710-97	IC NJM4565M(TE2)	
CN502	1-785-336-11	PIN, CONNECTOR(LIGHT ANGLE)10P		IC501	6-802-545-01	IC M30622MGN-B09FP	
CN702	1-569-906-11	SOCKET, CONNECTOR 11P		IC502	6-703-610-01	IC RT8H015C-T112-1	
CN851	1-564-506-11	PLUG, CONNECTOR 3P		IC601	8-759-533-04	IC M62703ML-E1	
CN901	1-770-726-11	CONNECTOR, BOARD TO BOARD 6P		IC901	8-759-701-59	IC TA7809S	
CN902	1-778-982-11	CONNECTOR, BOARD TO BOARD 13P		IC902	8-759-701-59	IC TA7809S	
< DIODE >				IC903	6-703-546-01	IC TA7804LS	
D130	8-719-988-61	DIODE 1SS355TE-17		IC904	6-702-771-01	IC TA78033LS	
D392	8-719-988-61	DIODE 1SS355TE-17		< JACK >			
D393	8-719-988-61	DIODE 1SS355TE-17		J117	1-764-767-21	JACK, PIN 2P (MD/VIDEO(AUDIO) IN)	
D394	8-719-988-61	DIODE 1SS355TE-17		J716	1-774-227-11	JACK, PIN 1P (VIDEO OUT)	
D501	8-719-988-61	DIODE 1SS355TE-17		< JUMPER RESISTOR >			
D502	8-719-988-61	DIODE 1SS355TE-17		JR001	1-216-296-11	SHORT CHIP	0
D503	8-719-988-61	DIODE 1SS355TE-17		JR003	1-216-864-11	METAL CHIP	0 5% 1/10W
D504	8-719-988-61	DIODE 1SS355TE-17		JR005	1-216-864-11	METAL CHIP	0 5% 1/10W
D505	8-719-988-61	DIODE 1SS355TE-17		JR006	1-216-296-11	SHORT CHIP	0
D508	8-719-988-61	DIODE 1SS355TE-17		JR007	1-216-296-11	SHORT CHIP	0
D509	8-719-988-61	DIODE 1SS355TE-17		JR008	1-216-864-11	METAL CHIP	0 5% 1/10W
D601	8-719-988-61	DIODE 1SS355TE-17		JR009	1-216-864-11	METAL CHIP	0 5% 1/10W
D602	8-719-988-61	DIODE 1SS355TE-17		JR011	1-216-296-11	SHORT CHIP	0
D603	8-719-988-61	DIODE 1SS355TE-17		JR012	1-216-296-11	SHORT CHIP	0
D901	8-719-028-23	DIODE D3SBA20-4101		JR013	1-216-864-11	METAL CHIP	0 5% 1/10W
D909	6-500-522-21	DIODE 10EDB40-TB3		JR015	1-216-864-11	METAL CHIP	0 5% 1/10W
D910	6-500-522-21	DIODE 10EDB40-TB3		JR016	1-216-864-11	METAL CHIP	0 5% 1/10W
D911	6-500-522-21	DIODE 10EDB40-TB3		JR017	1-216-864-11	METAL CHIP	0 5% 1/10W
D912	6-500-522-21	DIODE 10EDB40-TB3		JR018	1-216-864-11	METAL CHIP	0 5% 1/10W
D913	6-500-522-21	DIODE 10EDB40-TB3		JR022	1-216-864-11	METAL CHIP	0 5% 1/10W
D914	6-500-522-21	DIODE 10EDB40-TB3		JR024	1-216-864-11	METAL CHIP	0 5% 1/10W
D915	6-500-522-21	DIODE 10EDB40-TB3		JR026	1-414-760-21	FERRITE	0uH
D917	8-719-988-61	DIODE 1SS355TE-17		JR045	1-216-296-11	SHORT CHIP	0
D941	8-719-977-81	DIODE UDZ-TE-17-33B		JR103	1-216-864-11	METAL CHIP	0 5% 1/10W
< FERRITE BEAD >				JR104	1-216-296-11	SHORT CHIP	0
FB117	1-216-864-11	METAL CHIP	0 5% 1/10W	JR118	1-216-296-11	SHORT CHIP	0
FB167	1-216-864-11	METAL CHIP	0 5% 1/10W	JR130	1-216-864-11	METAL CHIP	0 5% 1/10W
FB201	1-469-152-11	FERRITE	0uH	JR138	1-216-864-11	METAL CHIP	0 5% 1/10W
FB202	1-216-864-11	METAL CHIP	0 5% 1/10W (GN700)	JR390	1-216-864-11	METAL CHIP	0 5% 1/10W
FB202	1-469-152-11	FERRITE	0uH (GX8800)	< COIL >			
FB203	1-216-864-11	METAL CHIP	0 5% 1/10W (GN700)	L301	1-410-780-11	INDUCTOR	27mH
FB203	1-469-152-11	FERRITE	0uH (GX8800)	L302	1-414-189-31	INDUCTOR	100uH
FB204	1-216-864-11	METAL CHIP	0 5% 1/10W (GN700)	L351	1-410-780-11	INDUCTOR	27mH
FB204	1-469-152-11	FERRITE	0uH (GX8800)	< TRANSISTOR >			
FB205	1-216-864-11	METAL CHIP	0 5% 1/10W (GN700)	Q101	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6
FB205	1-469-152-11	FERRITE	0uH (GX8800)	Q151	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6
FB284	1-216-864-11	METAL CHIP	0 5% 1/10W (GN700)	Q201	8-729-802-80	TRANSISTOR	2SC3661-TB
FB284	1-469-152-11	FERRITE	0uH (GX8800)	Q206	8-729-900-53	TRANSISTOR	DTC114EKA-T146
FB286	1-216-864-11	METAL CHIP	0 5% 1/10W (GN700)	Q207	8-729-027-31	TRANSISTOR	DTA124EKA-T146
FB286	1-469-152-11	FERRITE	0uH (GX8800)	Q251	8-729-802-80	TRANSISTOR	2SC3661-TB

HCD-GN700/GX8800

MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
Q301	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16	R154	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q302	8-729-142-46	TRANSISTOR	2SC2001TP-LK	R155	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q303	8-729-142-46	TRANSISTOR	2SC2001TP-LK	R156	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q304	8-729-027-31	TRANSISTOR	DTA124EKA-T146	R157	1-216-809-11	METAL CHIP	100 5% 1/10W
				R167	1-216-845-11	METAL CHIP	100K 5% 1/10W
Q305	8-729-900-53	TRANSISTOR	DTC114EKA-T146				
Q306	8-729-900-53	TRANSISTOR	DTC114EKA-T146	R168	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q307	8-729-216-22	TRANSISTOR	2SA812-T1-M5M6	R204	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q310	8-729-900-53	TRANSISTOR	DTC114EKA-T146	R205	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q389	8-729-900-53	TRANSISTOR	DTC114EKA-T146	R206	1-216-839-11	RES CHIP	33K 5% 1/10W
				R224	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
Q390	8-729-900-53	TRANSISTOR	DTC114EKA-T146				
Q391	8-729-140-04	TRANSISTOR	2SB1116-TP-LK	R226	1-216-847-11	METAL CHIP	150K 5% 1/10W
Q392	8-729-900-53	TRANSISTOR	DTC114EKA-T146	R228	1-216-843-11	METAL CHIP	68K 5% 1/10W
Q393	8-729-116-57	TRANSISTOR	2SB1068TP-K	R254	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q394	8-729-900-53	TRANSISTOR	DTC114EKA-T146	R255	1-216-821-11	METAL CHIP	1K 5% 1/10W
				R256	1-216-839-11	RES CHIP	33K 5% 1/10W
Q395	8-729-900-53	TRANSISTOR	DTC114EKA-T146				
Q396	8-729-140-04	TRANSISTOR	2SB1116-TP-LK	R284	1-216-853-11	METAL CHIP	470K 5% 1/10W
Q398	8-729-900-53	TRANSISTOR	DTC114EKA-T146	R285	1-216-837-11	METAL CHIP	22K 5% 1/10W
Q399	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16	R286	1-216-837-11	METAL CHIP	22K 5% 1/10W
Q601	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6	R301	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
				R302	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
Q602	8-729-014-97	TRANSISTOR	FA1L3Z-T1B				
Q620	8-729-802-80	TRANSISTOR	2SC3661-TB	R303	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q621	8-729-802-80	TRANSISTOR	2SC3661-TB	R304	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q650	8-729-027-31	TRANSISTOR	DTA124EKA-T146	R305	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q651	8-729-900-53	TRANSISTOR	DTC114EKA-T146	R306	1-216-837-11	METAL CHIP	22K 5% 1/10W
				R307	1-216-857-11	METAL CHIP	1M 5% 1/10W
Q652	8-729-027-31	TRANSISTOR	DTA124EKA-T146				
Q670	8-729-802-80	TRANSISTOR	2SC3661-TB	R308	1-216-809-11	METAL CHIP	100 5% 1/10W
Q671	8-729-802-80	TRANSISTOR	2SC3661-TB	R309	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
Q851	8-729-140-04	TRANSISTOR	2SB1116-TP-LK	R310	1-216-809-11	METAL CHIP	100 5% 1/10W
Q852	8-729-620-05	TRANSISTOR	2SC2603TP-EF	R312	1-216-809-11	METAL CHIP	100 5% 1/10W
				R313	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q901	8-729-040-20	TRANSISTOR	RT1P137L-TP				
Q902	8-729-900-53	TRANSISTOR	DTC114EKA-T146	R314	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q903	8-729-209-60	TRANSISTOR	2SB1375	R315	1-216-833-11	METAL CHIP	10K 5% 1/10W
		< RESISTOR >		R316	1-216-833-11	METAL CHIP	10K 5% 1/10W
R101	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R317	1-216-833-11	METAL CHIP	10K 5% 1/10W
R102	1-216-833-11	METAL CHIP	10K 5% 1/10W	R320	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R103	1-220-373-11	METAL CHIP	620 5% 1/10W				
R104	1-216-821-11	METAL CHIP	1K 5% 1/10W	R327	1-216-835-11	METAL CHIP	15K 5% 1/10W
R105	1-216-841-11	METAL CHIP	47K 5% 1/10W	R328	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
				R329	1-216-833-11	METAL CHIP	10K 5% 1/10W
R106	1-216-833-11	METAL CHIP	10K 5% 1/10W	R330	1-216-837-11	METAL CHIP	22K 5% 1/10W
R107	1-216-809-11	METAL CHIP	100 5% 1/10W	R332	1-216-832-11	METAL CHIP	8.2K 5% 1/10W
R110	1-216-864-11	METAL CHIP	0 5% 1/10W				
R112	1-216-864-11	METAL CHIP	0 5% 1/10W	R333	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R117	1-216-845-11	METAL CHIP	100K 5% 1/10W	R334	1-216-845-11	METAL CHIP	100K 5% 1/10W
				R342	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R118	1-216-821-11	METAL CHIP	1K 5% 1/10W	△ R343	1-219-787-17	FUSIBLE	5.6 5% 1/4W
R121	1-216-821-11	METAL CHIP	1K 5% 1/10W	△ R344	1-219-787-17	FUSIBLE	5.6 5% 1/4W
R122	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R130	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R345	1-216-836-11	METAL CHIP	18K 5% 1/10W
R131	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R346	1-216-836-11	METAL CHIP	18K 5% 1/10W
				R347	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
R132	1-216-857-11	METAL CHIP	1M 5% 1/10W	R351	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R133	1-216-845-11	METAL CHIP	100K 5% 1/10W	R352	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R134	1-218-701-11	METAL CHIP	2.4K 5% 1/10W				
R140	1-216-833-11	METAL CHIP	10K 5% 1/10W	R353	1-216-833-11	METAL CHIP	10K 5% 1/10W
R141	1-216-809-11	METAL CHIP	100 5% 1/10W	R354	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
				R355	1-216-841-11	METAL CHIP	47K 5% 1/10W
R142	1-216-809-11	METAL CHIP	100 5% 1/10W	R360	1-216-819-11	METAL CHIP	680 5% 1/10W
R150	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R361	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R151	1-216-825-11	METAL CHIP	2.2K 5% 1/10W				
R152	1-216-833-11	METAL CHIP	10K 5% 1/10W	R362	1-216-833-11	METAL CHIP	10K 5% 1/10W
R153	1-220-373-11	METAL CHIP	620 5% 1/10W				

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
R363	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R493	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R364	1-216-819-11	METAL CHIP	680	5%	1/10W						(GN700:AR,E2,E51,MX,GX8800)
R365	1-216-833-11	METAL CHIP	10K	5%	1/10W	R501	1-216-821-11	METAL CHIP	1K	5%	1/10W
R366	1-216-819-11	METAL CHIP	680	5%	1/10W	R502	1-216-821-11	METAL CHIP	1K	5%	1/10W
R367	1-216-833-11	METAL CHIP	10K	5%	1/10W	R503	1-216-809-11	METAL CHIP	100	5%	1/10W
R368	1-216-833-11	METAL CHIP	10K	5%	1/10W	R504	1-216-809-11	METAL CHIP	100	5%	1/10W
R369	1-216-833-11	METAL CHIP	10K	5%	1/10W	R505	1-216-817-11	METAL CHIP	470	5%	1/10W
R370	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R506	1-216-817-11	METAL CHIP	470	5%	1/10W
R371	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R507	1-216-817-11	METAL CHIP	470	5%	1/10W
R372	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R509	1-216-833-11	METAL CHIP	10K	5%	1/10W
R373	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R511	1-216-851-11	METAL CHIP	330K	5%	1/10W
R374	1-216-833-11	METAL CHIP	10K	5%	1/10W	R513	1-216-864-11	METAL CHIP	0	5%	1/10W
R375	1-216-833-11	METAL CHIP	10K	5%	1/10W	R517	1-216-833-11	METAL CHIP	10K	5%	1/10W
R376	1-216-833-11	METAL CHIP	10K	5%	1/10W	R518	1-216-809-11	METAL CHIP	100	5%	1/10W
R377	1-216-833-11	METAL CHIP	10K	5%	1/10W	R519	1-216-833-11	METAL CHIP	10K	5%	1/10W
R378	1-216-833-11	METAL CHIP	10K	5%	1/10W	R521	1-216-809-11	METAL CHIP	100	5%	1/10W
R379	1-216-833-11	METAL CHIP	10K	5%	1/10W	R522	1-216-809-11	METAL CHIP	100	5%	1/10W
R380	1-216-837-11	METAL CHIP	22K	5%	1/10W	R523	1-216-833-11	METAL CHIP	10K	5%	1/10W
R382	1-216-832-11	METAL CHIP	8.2K	5%	1/10W	R529	1-216-833-11	METAL CHIP	10K	5%	1/10W
R387	1-216-833-11	METAL CHIP	10K	5%	1/10W	R530	1-216-833-11	METAL CHIP	10K	5%	1/10W
R388	1-216-837-11	METAL CHIP	22K	5%	1/10W	R532	1-216-841-11	METAL CHIP	47K	5%	1/10W
R390	1-216-833-11	METAL CHIP	10K	5%	1/10W	R535	1-216-817-11	METAL CHIP	470	5%	1/10W
R391	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R536	1-216-809-11	METAL CHIP	100	5%	1/10W
R392	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R537	1-216-817-11	METAL CHIP	470	5%	1/10W
R393	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R538	1-216-809-11	METAL CHIP	100	5%	1/10W
R394	1-216-833-11	METAL CHIP	10K	5%	1/10W	R539	1-216-809-11	METAL CHIP	100	5%	1/10W
R395	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R540	1-216-809-11	METAL CHIP	100	5%	1/10W
R396	1-216-833-11	METAL CHIP	10K	5%	1/10W	R541	1-216-809-11	METAL CHIP	100	5%	1/10W
R397	1-216-835-11	METAL CHIP	15K	5%	1/10W	R542	1-216-833-11	METAL CHIP	10K	5%	1/10W
R398	1-216-861-11	METAL CHIP	2.2M	5%	1/10W	R543	1-216-833-11	METAL CHIP	10K	5%	1/10W
R399	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R544	1-216-833-11	METAL CHIP	10K	5%	1/10W
R401	1-216-833-11	METAL CHIP	10K	5%	1/10W	R545	1-216-833-11	METAL CHIP	10K	5%	1/10W
R402	1-216-833-11	METAL CHIP	10K	5%	1/10W	R549	1-216-833-11	METAL CHIP	10K	5%	1/10W
R419	1-216-809-11	METAL CHIP	100	5%	1/10W	R550	1-216-833-11	METAL CHIP	10K	5%	1/10W
R420	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R560	1-216-809-11	METAL CHIP	100	5%	1/10W
R421	1-216-833-11	METAL CHIP	10K	5%	1/10W	R561	1-216-809-11	METAL CHIP	100	5%	1/10W
R422	1-216-833-11	METAL CHIP	10K	5%	1/10W	R563	1-216-833-11	METAL CHIP	10K	5%	1/10W
R427	1-216-809-11	METAL CHIP	100	5%	1/10W	R565	1-216-809-11	METAL CHIP	100	5%	1/10W
R429	1-216-809-11	METAL CHIP	100	5%	1/10W	R566	1-216-809-11	METAL CHIP	100	5%	1/10W
R430	1-216-809-11	METAL CHIP	100	5%	1/10W	R567	1-216-809-11	METAL CHIP	100	5%	1/10W
R431	1-216-845-11	METAL CHIP	100K	5%	1/10W	R568	1-216-809-11	METAL CHIP	100	5%	1/10W
R432	1-216-809-11	METAL CHIP	100	5%	1/10W	R573	1-216-833-11	METAL CHIP	10K	5%	1/10W
R433	1-216-809-11	METAL CHIP	100	5%	1/10W	R574	1-216-833-11	METAL CHIP	10K	5%	1/10W
R434	1-216-817-11	METAL CHIP	470	5%	1/10W	R575	1-216-809-11	METAL CHIP	100	5%	1/10W
R442	1-216-809-11	METAL CHIP	100	5%	1/10W	R576	1-216-809-11	METAL CHIP	100	5%	1/10W
R443	1-216-809-11	METAL CHIP	100	5%	1/10W	R577	1-216-809-11	METAL CHIP	100	5%	1/10W
R444	1-216-809-11	METAL CHIP	100	5%	1/10W	R578	1-216-809-11	METAL CHIP	100	5%	1/10W
R445	1-216-809-11	METAL CHIP	100	5%	1/10W	R579	1-216-809-11	METAL CHIP	100	5%	1/10W
R446	1-216-809-11	METAL CHIP	100	5%	1/10W	R580	1-216-809-11	METAL CHIP	100	5%	1/10W
R447	1-216-809-11	METAL CHIP	100	5%	1/10W	R581	1-216-809-11	METAL CHIP	100	5%	1/10W
R448	1-216-817-11	METAL CHIP	470	5%	1/10W	R583	1-216-809-11	METAL CHIP	100	5%	1/10W
R450	1-216-809-11	METAL CHIP	100	5%	1/10W	R584	1-216-809-11	METAL CHIP	100	5%	1/10W
R473	1-216-809-11	METAL CHIP	100	5%	1/10W	R585	1-216-809-11	METAL CHIP	100	5%	1/10W
R474	1-216-809-11	METAL CHIP	100	5%	1/10W	R586	1-216-809-11	METAL CHIP	100	5%	1/10W
R477	1-216-833-11	METAL CHIP	10K	5%	1/10W	R587	1-216-809-11	METAL CHIP	100	5%	1/10W
R478	1-216-833-11	METAL CHIP	10K	5%	1/10W	R588	1-216-809-11	METAL CHIP	100	5%	1/10W
R492	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R589	1-216-809-11	METAL CHIP	100	5%	1/10W
R493	1-216-864-11	METAL CHIP	0	5%	1/10W	R590	1-216-809-11	METAL CHIP	100	5%	1/10W
					(GN700:E3)	R591	1-216-809-11	METAL CHIP	100	5%	1/10W

HCD-GN700/GX8800

MAIN	MOTOR (LD)	MOTOR (TB)	POWER AMP
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Ref. No.	Part No.	Description	Remarks
R592	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R593	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
			(GX8800)
R593	1-216-821-11	METAL CHIP	1K 5% 1/10W
			(GN700:AR,E2,E51,MX)
R594	1-216-821-11	METAL CHIP	1K 5% 1/10W
R597	1-216-809-11	METAL CHIP	100 5% 1/10W
R600	1-216-809-11	METAL CHIP	100 5% 1/10W
R601	1-216-813-11	METAL CHIP	220 5% 1/10W
R602	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R603	1-216-841-11	METAL CHIP	47K 5% 1/10W
R604	1-216-841-11	METAL CHIP	47K 5% 1/10W
R620	1-216-833-11	METAL CHIP	10K 5% 1/10W
R621	1-216-821-11	METAL CHIP	1K 5% 1/10W
R622	1-216-841-11	METAL CHIP	47K 5% 1/10W
R623	1-216-833-11	METAL CHIP	10K 5% 1/10W
R624	1-215-891-11	METAL OXIDE	680 5% 2W
R625	1-216-821-11	METAL CHIP	1K 5% 1/10W
R626	1-216-806-11	METAL CHIP	56 5% 1/10W
R650	1-216-835-11	METAL CHIP	15K 5% 1/10W
R651	1-216-853-11	METAL CHIP	470K 5% 1/10W
R652	1-216-843-11	METAL CHIP	68K 5% 1/10W
R653	1-216-821-11	METAL CHIP	1K 5% 1/10W
R654	1-216-845-11	METAL CHIP	100K 5% 1/10W
R655	1-216-845-11	METAL CHIP	100K 5% 1/10W
R656	1-216-833-11	METAL CHIP	10K 5% 1/10W
R670	1-216-833-11	METAL CHIP	10K 5% 1/10W
R671	1-216-821-11	METAL CHIP	1K 5% 1/10W
R672	1-216-841-11	METAL CHIP	47K 5% 1/10W
R673	1-216-833-11	METAL CHIP	10K 5% 1/10W
R674	1-215-891-11	METAL OXIDE	680 5% 2W
R675	1-216-821-11	METAL CHIP	1K 5% 1/10W
R676	1-216-806-11	METAL CHIP	56 5% 1/10W
R851	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R852	1-216-833-11	METAL CHIP	10K 5% 1/10W
R853	1-216-422-11	METAL OXIDE	18 5% 1W
R854	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R901	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
R902	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R903	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R904	1-216-832-11	METAL CHIP	8.2K 5% 1/10W
R905	1-216-832-11	METAL CHIP	8.2K 5% 1/10W
R906	1-216-821-11	METAL CHIP	1K 5% 1/10W
R908	1-216-833-11	METAL CHIP	10K 5% 1/10W
R913	1-216-841-11	METAL CHIP	47K 5% 1/10W
		< VARIABLE RESISTOR >	
RV301	1-238-019-11	RES, ADJ, CARBON 47K (REC LEVEL (L))	
RV304	1-241-768-11	RES, ADJ, CARBON 220K (REC BIAS (L))	
RV351	1-238-019-11	RES, ADJ, CARBON 47K (REC LEVEL (R))	
RV354	1-241-768-11	RES, ADJ, CARBON 220K (REC BIAS (R))	
		< TRANSFORMER >	
T301	1-423-980-11	TRANSFORMER, BIAS OSCILLATION	
		< VIBRATOR >	
X501	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)	
X502	1-781-107-21	VIBRATOR, SERAMIC (16MHz)	

Ref. No.	Part No.	Description	Remarks
	1-687-133-11	MOTOR (LD) BOARD	*****

	1-687-134-11	MOTOR (TB) BOARD	*****
		< CONNECTOR >	
CN742	1-784-727-11	CONNECTOR, FFC 5P	*****
	A-4731-361-A	POWER AMP BOARD, COMPLETE (GN700)	
	A-4733-071-A	POWER AMP BOARD, COMPLETE (GX8800)	*****
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
		< CAPACITOR >	
C501	1-126-963-11	ELECT	4.7uF 20% 50V
C502	1-162-294-31	CERAMIC	0.001uF 10% 50V
C503	1-162-286-31	CERAMIC	220PF 10% 50V
C504	1-104-665-11	ELECT	100uF 20% 10V
C507	1-136-495-11	FILM	0.068uF 5% 50V
C508	1-136-495-11	FILM	0.068uF 5% 50V
C509	1-128-560-11	ELECT	22uF 20% 100V
C512	1-162-306-11	CERAMIC	0.01uF 20% 16V
C513	1-162-306-11	CERAMIC	0.01uF 20% 16V
C516	1-104-665-11	ELECT	100uF 20% 10V
C517	1-126-964-11	ELECT	10uF 20% 50V
C523	1-162-306-11	CERAMIC	0.01uF 30% 16V
C524	1-162-306-11	CERAMIC	0.01uF 30% 16V
C526	1-126-964-11	ELECT	10uF 20% 50V
C527	1-162-306-11	CERAMIC	0.01uF 20% 16V
C541	1-136-165-00	FILM	0.1uF 5% 50V
C542	1-127-811-11	ELECT	3300uF 20% 50V
C544	1-130-777-00	MYLAR	0.1uF 5% 100V
C545	1-130-777-00	MYLAR	0.1uF 5% 100V
C546	1-137-843-11	ELECT	2200uF 20% 100V
C551	1-126-963-11	ELECT	4.7uF 20% 50V
C552	1-162-294-31	CERAMIC	0.001uF 10% 50V
C553	1-162-286-31	CERAMIC	220PF 10% 50V
C554	1-104-665-11	ELECT	100uF 20% 10V
C557	1-136-495-11	FILM	0.068uF 5% 50V
C558	1-136-495-11	FILM	0.068uF 5% 50V
C559	1-128-560-11	ELECT	22uF 20% 100V
C581	1-126-965-91	ELECT	22uF 20% 50V
C591	1-136-165-00	FILM	0.1uF 5% 50V
C592	1-127-811-11	ELECT	3300uF 20% 50V
C596	1-137-843-11	ELECT	2200uF 20% 100V
		< CONNECTOR >	
CN503	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P	
CN504	1-770-722-11	CONNECTOR, BOARD TO BOARD 6P	
		< DIODE >	
D501	8-719-991-33	DIODE 1SS133T-72	
D502	8-719-991-33	DIODE 1SS133T-72	
D503	8-719-947-70	DIODE MTZJ-T-72-18C	
D504	8-719-947-70	DIODE MTZJ-T-72-18C	

POWER AMP

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
D506	8-719-991-33	DIODE 1SS133T-72		R527	1-249-438-11	CARBON 56K 5%	1/4W
D507	8-719-991-33	DIODE 1SS133T-72		R528	1-249-437-11	CARBON 47K 5%	1/4W
D508	8-719-991-33	DIODE 1SS133T-72		R529	1-249-433-11	CARBON 22K 5%	1/4W
D509	8-719-991-33	DIODE 1SS133T-72		R530	1-249-433-11	CARBON 22K 5%	1/4W
D510	8-719-991-33	DIODE 1SS133T-72		R531	1-247-891-00	CARBON 330K 5%	1/4W
D511	8-719-991-33	DIODE 1SS133T-72		R532	1-249-441-11	CARBON 100K 5%	1/4W
D541	8-719-510-68	DIODE D5SBA204101		R533	1-249-437-11	CARBON 47K 5%	1/4W
D543	8-719-500-60	DIODE D5SBA20		△ R539	1-216-455-11	METAL OXIDE 560 5%	2W (GN700)
D551	8-719-991-33	DIODE 1SS133T-72		△ R539	1-215-891-11	METAL OXIDE 680 5%	2W (GX8800)
D581	8-719-991-33	DIODE 1SS133T-72		△ R540	1-216-455-11	METAL OXIDE 560 5%	2W (GN700)
< EARTH TERMINAL >				△ R540	1-215-891-11	METAL OXIDE 680 5%	2W (GX8800)
* EP501	1-537-738-21	TERMINAL, EARTH		R541	1-249-441-11	CARBON 100K 5%	1/4W
* EP502	1-537-738-21	TERMINAL, EARTH		R542	1-249-441-11	CARBON 100K 5%	1/4W
< IC >				R545	1-249-417-11	CARBON 1K 5%	1/4W F
IC501	8-749-017-06	IC STK412-150		R546	1-249-433-11	CARBON 22K 5%	1/4W
< TRANSISTOR >				R547	1-249-437-11	CARBON 47K 5%	1/4W
Q501	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA		R548	1-249-437-11	CARBON 47K 5%	1/4W
Q503	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA		R551	1-249-417-11	CARBON 1K 5%	1/4W F
Q504	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA		R552	1-249-437-11	CARBON 47K 5%	1/4W
Q505	8-729-119-79	TRANSISTOR 2SC2785TP-FEK		R553	1-249-411-11	CARBON 330 5%	1/4W
Q506	8-729-119-79	TRANSISTOR 2SC2785TP-FEK		R554	1-249-437-11	CARBON 47K 5%	1/4W
Q510	8-729-119-79	TRANSISTOR 2SC2785TP-FEK		R555	1-249-416-11	CARBON 820 5%	1/4W F
Q511	8-729-119-79	TRANSISTOR 2SC2785TP-FEK		R556	1-249-435-11	CARBON 33K 5%	1/4W
Q513	8-729-119-79	TRANSISTOR 2SC2785TP-FEK		R557	1-249-441-11	CARBON 100K 5%	1/4W
Q514	8-729-119-79	TRANSISTOR 2SC2785TP-FEK		△ R558	1-234-798-11	ENCAPSULATED COMPONENT	
Q515	8-729-119-76	TRANSISTOR 2SA1175TP-HFE		R559	1-260-076-11	CARBON 10 5%	1/2W
Q516	8-729-119-79	TRANSISTOR 2SC2785TP-FEK		△ R561	1-212-881-11	FUSIBLE 100 5%	1/4W
Q517	8-729-119-76	TRANSISTOR 2SA1175TP-HFE		R564	1-249-433-11	CARBON 22K 5%	1/4W
Q518	8-729-119-79	TRANSISTOR 2SC2785TP-FEK		R565	1-249-433-11	CARBON 22K 5%	1/4W
Q551	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA		R566	1-249-429-11	CARBON 10K 5%	1/4W
Q581	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA		R567	1-249-429-11	CARBON 10K 5%	1/4W
< RESISTOR >				R568	1-249-429-11	CARBON 10K 5%	1/4W
R501	1-249-417-11	CARBON 1K 5%	1/4W F	R569	1-249-437-11	CARBON 47K 5%	1/4W
R502	1-249-437-11	CARBON 47K 5%	1/4W	R570	1-249-429-11	CARBON 10K 5%	1/4W
R503	1-249-411-11	CARBON 330 5%	1/4W	R571	1-249-437-11	CARBON 47K 5%	1/4W
R504	1-249-437-11	CARBON 47K 5%	1/4W	R572	1-249-441-11	CARBON 100K 5%	1/4W
R505	1-249-416-11	CARBON 820 5%	1/4W F	R573	1-249-441-11	CARBON 100K 5%	1/4W
R506	1-249-435-11	CARBON 33K 5%	1/4W	R577	1-247-807-31	CARBON 100 5%	1/4W
R507	1-249-441-11	CARBON 100K 5%	1/4W	R578	1-247-897-11	CARBON 560K 5%	1/4W
△ R508	1-234-798-11	ENCAPSULATED COMPONENT		R581	1-249-435-11	CARBON 33K 5%	1/4W
R509	1-260-076-11	CARBON 10 5%	1/2W	R582	1-249-435-11	CARBON 33K 5%	1/4W
△ R511	1-212-881-11	FUSIBLE 100 5%	1/4W	R591	1-249-441-11	CARBON 100K 5%	1/4W
△ R512	1-202-972-61	FUSIBLE 1 5%	1/4W	R592	1-249-441-11	CARBON 100K 5%	1/4W
R513	1-249-435-11	CARBON 33K 5%	1/4W	< RELAY >			
R514	1-249-421-11	CARBON 2.2K 5%	1/4W F	RY501	1-515-920-11	RELAY	
R515	1-249-433-11	CARBON 22K 5%	1/4W	RY502	1-515-920-11	RELAY	
R516	1-249-429-11	CARBON 10K 5%	1/4W	< THERMISTOR >			
R517	1-249-429-11	CARBON 10K 5%	1/4W	TH501	1-807-796-11	THERMISTOR	
R518	1-249-435-11	CARBON 33K 5%	1/4W	TH502	1-807-796-11	THERMISTOR	
R519	1-249-439-11	CARBON 68K 5%	1/4W	<div> The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified. </div>			
△ R520	1-215-872-11	METAL OXIDE 3.3K 5%	1W				
R521	1-249-441-11	CARBON 100K 5%	1/4W				
R522	1-249-441-11	CARBON 100K 5%	1/4W				
R523	1-249-441-11	CARBON 100K 5%	1/4W				
△ R524	1-215-872-11	METAL OXIDE 3.3K 5%	1W				

HCD-GN700/GX8800

POWER AMP	SENSOR	SUB TRANS	SW	TRANS	VOLUME
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Ref. No.	Part No.	Description	Remarks
		< TERMINAL >	
TM501	1-694-877-11	TERMINAL BOARD (8P) (FRONT/SURROUND SPEAKER)	

	1-687-132-11	SENSOR BOARD *****	
		< CONNECTOR >	
CN731	1-785-329-21	PIN, CONNECTOR (LIGHT ANGLE)3P	

	A-4731-346-A	SUB TRANS BOARD, COMPLETE (GN700)	
	A-4733-069-A	SUB TRANS BOARD, COMPLETE (GX8800) *****	
		< CAPACITOR >	
△ C971	1-113-925-11	CERAMIC 0.01uF 20% 250V	
C973	1-126-933-11	ELECT 100uF 20% 16V	
C975	1-126-768-11	ELECT 2200uF 20% 16V	
C976	1-164-159-11	CERAMIC 0.1uF 50V	
C977	1-164-159-11	CERAMIC 0.1uF 50V	
C978	1-164-159-11	CERAMIC 0.1uF 50V	
		< CONNECTOR >	
CN971	1-568-106-11	PIN, CONNECTOR(3.96MM PITCH)4P (GN700)	
CN971	1-564-321-00	PIN, CONNECTOR(3.96MM PITCH)2P (GX8800)	
CN974	1-564-321-00	PIN, CONNECTOR(3.96MM PITCH)2P	
CN976	1-506-469-11	PIN, CONNECTOR 4P	
		< DIODE >	
D971	8-719-991-33	DIODE 1SS133T-72	
D972	8-719-024-99	DIODE 11ES2-NTA2B	
D973	8-719-024-99	DIODE 11ES2-NTA2B	
D974	8-719-024-99	DIODE 11ES2-NTA2B	
D975	8-719-024-99	DIODE 11ES2-NTA2B	
		< IC >	
IC971	6-703-546-01	IC TA7804LS	
		< TRANSISTOR >	
Q971	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
		< RESISTOR >	
R974	1-249-441-11	CARBON 100K 5% 1/4W	
R975	1-249-429-11	CARBON 10K 5% 1/4W	
		< RELAY >	
△ RY971	1-755-497-11	RELAY (GX8800)	
△ RY971	1-755-276-11	RELAY, POWER (GN700)	
		< SWITCH >	
△ S901	1-786-055-21	SELECTOR, VOLTAGE (VOLTAGE SELECTOR) (GN700)	
		< TRANSFORMER >	
△ T972	1-437-675-11	TRANSFORMER, POWER (GX8800)	
△ T972	1-435-825-11	TRANSFORMER, POWER (GN700)	

Ref. No.	Part No.	Description	Remarks
	1-687-669-11	SW BOARD *****	
		< SWITCH >	
S751	1-786-514-11	SWITCH, LEVER (SLIDE) (LEVER) *****	
	1-686-930-11	TRANS BOARD *****	
		< CAPACITOR >	
C941	1-128-576-11	ELECT 100uF 20% 63V	
		< CONNECTOR >	
CN997	1-564-509-11	PLUG, CONNECTOR 6P	
* CN998	1-564-510-11	PLUG, CONNECTOR 7P	
		< DIODE >	
D977	8-719-024-99	DIODE 11ES2-NTA2B	
		< FUSE HOLDER >	
FH9741	1-533-233-11	FUSE HOLDER	
FH9742	1-533-233-11	FUSE HOLDER	
FH9751	1-533-233-11	FUSE HOLDER	
FH9752	1-533-233-11	FUSE HOLDER	
FH9761	1-533-233-11	FUSE HOLDER	
FH9762	1-533-233-11	FUSE HOLDER	
FH9771	1-533-233-11	FUSE HOLDER	
FH9772	1-533-233-11	FUSE HOLDER	
FH9781	1-533-233-11	FUSE HOLDER	
FH9782	1-533-233-11	FUSE HOLDER	
		< RESISTOR >	
△ R941	1-217-637-00	FUSIBLE 1 5% 1/4W	
△ R952	1-219-120-11	FUSIBLE 0.15 5% 1/4W	
△ R954	1-219-237-91	SOLID 3.3M 20% 1/2W (GX8800)	

	A-4731-329-A	VOLUME BOARD, COMPLETE *****	
		< CAPACITOR >	
C614	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C615	1-124-589-11	ELECT 47uF 20% 16V	
C750	1-164-159-11	CERAMIC 0.1uF 50V	
C751	1-164-159-11	CERAMIC 0.1uF 50V	
C752	1-164-159-11	CERAMIC 0.1uF 50V	
		< CONNECTOR >	
CN605	1-568-860-11	SOCKET, CONNECTOR 17P	
		< DIODE >	
D1001	6-500-529-01	DIODE SLI-325URT31W (VOL 1)	
D1002	6-500-529-01	DIODE SLI-325URT31W (VOL 2)	
D1003	6-500-529-01	DIODE SLI-325URT31W (VOL 3)	
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.			

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
D1004	6-500-529-01	DIODE SLI-325URT31W (VOL 4)		S760	1-762-875-21	SWITCH, KEYBOARD (P.FILE)	
D1005	6-500-529-01	DIODE SLI-325URT31W (VOL 5)		S761	1-762-875-21	SWITCH, KEYBOARD (ILLUMINATION)	
D1006	6-500-529-01	DIODE SLI-325URT31W (VOL 6)		S762	1-762-875-21	SWITCH, KEYBOARD (GAME EQ)	
D1007	6-500-529-01	DIODE SLI-325URT31W (VOL 7)		S763	1-762-875-21	SWITCH, KEYBOARD (GROOVE)	
D1008	6-500-529-01	DIODE SLI-325URT31W (VOL 8)		S765	1-762-875-21	SWITCH, KEYBOARD (EDIT/DIRECTION)	
D1009	6-500-529-01	DIODE SLI-325URT31W (VOL 9)		S766	1-762-875-21	SWITCH, KEYBOARD (FM MODE/REPEAT)	
D1010	6-500-529-01	DIODE SLI-325URT31W (VOL 10)		S767	1-762-875-21	SWITCH, KEYBOARD (TUNER MEMORY/PLAY MODE)	
D1011	6-500-529-01	DIODE SLI-325URT31W (VOL 11)		S768	1-762-875-21	SWITCH, KEYBOARD (AMP MENU)	
		< IC >		S769	1-762-875-21	SWITCH, KEYBOARD (MUSIC EQ)	
IC603	6-600-174-01	IC RPM7240-H4		S770	1-762-875-21	SWITCH, KEYBOARD (MOVIE EQ)	
		< TRANSISTOR >		S771	1-762-875-21	SWITCH, KEYBOARD (EFFECT ON/OFF)	
				S773	1-786-528-11	SWITCH, ROTARY (←,→,↑,↓, PUSH ENTER)	

				MISCELLANEOUS			

Q1001	8-729-116-02	TRANSISTOR BA1A4M-TP		5	1-920-835-32	WIRE (FLAT TYPE) (11 CORE)	
Q1002	8-729-116-02	TRANSISTOR BA1A4M-TP		6	1-693-603-11	TUNER (FM/AM) (GN700)	
Q1003	8-729-116-02	TRANSISTOR BA1A4M-TP		6	1-693-623-11	TUNER (FM/AM) (GX8800)	
Q1004	8-729-116-02	TRANSISTOR BA1A4M-TP		70	1-773-040-11	WIRE (FLAT TYPE) (17 CORE)	
Q1005	8-729-116-02	TRANSISTOR BA1A4M-TP		73	1-773-110-11	WIRE (FLAT TYPE) (19 CORE)	
Q1006	8-729-116-02	TRANSISTOR BA1A4M-TP					
		< RESISTOR >					
R625	1-249-401-11	CARBON 47 5% 1/4W F		75	1-796-487-31	DECK, MECHANICAL	
R750	1-249-410-11	CARBON 270 5% 1/4W F		79	1-751-688-11	WIRE (FLAT TYPE) (13 CORE)	
R759	1-249-427-11	CARBON 6.8K 5% 1/4W F		△103	1-777-071-53	CORD, POWER (GN700:E51)	
R760	1-249-429-11	CARBON 10K 5% 1/4W		△103	1-783-531-31	CORD, POWER (GX8800)	
R761	1-249-431-11	CARBON 15K 5% 1/4W		△103	1-783-941-12	CORD, POWER (GN700:AR)	
R762	1-249-433-11	CARBON 22K 5% 1/4W		△103	1-791-901-12	CORD, POWER (GN700:E2,E3,MX)	
R763	1-249-435-11	CARBON 33K 5% 1/4W		152	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)	
R765	1-249-413-11	CARBON 470 5% 1/4W F		226	1-782-817-11	WIRE (FLAT TYPE) (16 CORE)	
R766	1-249-415-11	CARBON 680 5% 1/4W F		227	1-775-280-11	WIRE (FLAT TYPE) (31 CORE)	
R767	1-249-417-11	CARBON 1K 5% 1/4W F		△229	A-4735-357-A	BASE ASSY, OP (including KSS-213DCP)	
R768	1-249-419-11	CARBON 1.5K 5% 1/4W F		230	1-471-035-11	MAGNET ASSY	
R769	1-249-419-11	CARBON 1.5K 5% 1/4W F		△F974	1-533-454-11	FUSE, GLASS TUBE (DIA. 5) (6.3A 125V)	(GX8800)
R770	1-249-421-11	CARBON 2.2K 5% 1/4W F		△F974	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) (T6.3AL 250V)	(GN700)
R771	1-247-843-11	CARBON 3.3K 5% 1/4W		△F975	1-533-454-11	FUSE, GLASS TUBE (DIA. 5) (6.3A 125V)	(GX8800)
R772	1-249-425-11	CARBON 4.7K 5% 1/4W F		△F975	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) (T6.3AL 250V)	(GN700)
R773	1-249-427-11	CARBON 6.8K 5% 1/4W F		△F976	1-576-537-11	FUSE, GLASS TUBE (DIA.5) (8A 125V)	(GX8800)
R774	1-249-429-11	CARBON 10K 5% 1/4W		△F976	1-576-655-11	FUSE, GLASS TUBE (DIA. 5) (T8AL 250V)	(GN700)
R775	1-249-431-11	CARBON 15K 5% 1/4W		△F977	1-576-537-11	FUSE, GLASS TUBE (DIA.5) (8A 125V)	(GX8800)
R776	1-249-433-11	CARBON 22K 5% 1/4W		△F977	1-576-655-11	FUSE, GLASS TUBE (DIA. 5) (T8AL 250V)	(GN700)
R777	1-249-435-11	CARBON 33K 5% 1/4W		△F978	1-533-452-11	FUSE, GLASS TUBE (DIA. 5) (4A 125V)	(GX8800)
R1001	1-249-413-11	CARBON 470 5% 1/4W F		△F978	1-533-471-11	FUSE, GLASS TUBE (DIA. 5) (T4AL 250V)	(GN700)
R1002	1-249-413-11	CARBON 470 5% 1/4W F		M741	A-4723-963-A	MOTOR ASSY, TABLE	
R1003	1-249-413-11	CARBON 470 5% 1/4W F		M751	A-4737-553-A	MOTOR ASSY, LOADING	
R1004	1-249-413-11	CARBON 470 5% 1/4W F		M891	1-763-072-11	FAN, DC	
R1005	1-249-413-11	CARBON 470 5% 1/4W F		RE701	1-477-680-11	ENCODER, ROTARY	
R1006	1-249-413-11	CARBON 470 5% 1/4W F					
R1007	1-249-413-11	CARBON 470 5% 1/4W F					
R1008	1-249-413-11	CARBON 470 5% 1/4W F					
R1009	1-249-413-11	CARBON 470 5% 1/4W F					
R1010	1-249-413-11	CARBON 470 5% 1/4W F					
R1011	1-249-413-11	CARBON 470 5% 1/4W F					
		< SWITCH >		△T910	1-439-555-11	POWER TRANSFORMER (GN700)	
S748	1-476-504-11	ENCODER, ROTARY (VOLUME)		△T910	1-439-617-11	POWER TRANSFORMER (GX8800)	
S750	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)					
S759	1-762-875-21	SWITCH, KEYBOARD (SURROUND SPEAKER MODE)					

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Replace only with part number specified.

REVISION HISTORY

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